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Pollution Risk Services

Sheboygan River and Harbor Superfund Site

Baseline Upper and Lower River Fish Monitoring Report

June 2009

Prepared for
United States Environmental Protection Agency
Region 5
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1.0 Introduction

Monitoring of post-remedial fish tissue concentrations of polychlorinated biphenyls (PCBs) is being conducted on the Sheboygan River in accordance with the *Post-Remediation Monitoring Plan* (PMP). As stated in the PMP, the monitoring is being conducted in three phases consisting of the following:

- Baseline monitoring after remediation of the Upper River and prior to remediation of the Lower River reaches to determine the mean PCB concentration of each fish species of interest and establish a comparison point for future sampling,[1]
- Phase 1 annual monitoring following remediation of each reach to determine if the PCB concentration of each fish species is changing compared to the baseline and track the progress of the fish in meeting the remedial goals, and
- Phase 2 conformational sampling to verify the fish have reached the remedial goals.

This Baseline Upper and Lower River Fish Monitoring Report documents the post-remediation monitoring performed in 2008, specifically the collection of fish to establish baseline concentrations of several different fish species downstream of the portion of the river known as the Upper River. Baseline fish monitoring for the Upper River is considered the first annual sampling event following remediation documenting post-remedial conditions.

The data obtained during the baseline fish sampling will allow post-remedial fish tissue concentrations to be compared to baseline results to monitor remedial progress. Fish tissue results in the Upper River will be compared to the baseline fish monitoring performed in the first annual sampling event post-remediation, and the 2002 Interim Monitoring Program (IMP) Report. Fish tissue results in the Lower River reaches will be compared to the baseline fish monitoring performed prior to remediation.

In accordance with the *Upper River Statement of Work* (URSOW), post-remedial monitoring will occur until fish consumption advisories for the Upper River based on PCBs are lifted by the Wisconsin Department of Health, fish fillet concentrations of PCBs decrease to the target levels specified on page 32 of the *Record of Decision* (ROD), or for 30 years, whichever comes first.

[1] The Upper River has already been remediated. The first annual event will be used as the baseline event.

1.1 Site Description

The Sheboygan River and Harbor Superfund Site (the Site) is located on the western shore of Lake Michigan approximately fifty-five miles north of Milwaukee, Wisconsin, in Sheboygan County (Figure 1). The Site includes the former Tecumseh Manufacturing site and the lower fourteen miles of the Sheboygan River from the Sheboygan Falls Dam downstream to, and including, the Inner Harbor. This segment of the river flows west to east through the cities of Sheboygan Falls, Kohler, and Sheboygan before entering Lake Michigan.

During the Remedial Investigations (RI), the river was segmented in separate sections, known as reaches, based on physical characteristics such as average depth, width, and level of polychlorinated biphenyl (PCB) sediment contamination. The Upper River extends from the Sheboygan Falls Dam downstream four miles to the Waelderhaus Dam in Kohler. The Middle River extends seven miles from the Waelderhaus Dam to the former Chicago & Northwestern (C&NW) railroad bridge. The Lower River extends three miles from the C&NW railroad bridge to the Pennsylvania Avenue Bridge in downtown Sheboygan. The Inner Harbor includes the Sheboygan River from the Pennsylvania Avenue Bridge to the river's outlet to the Outer Harbor. The Outer Harbor is defined as the area formed by the two break walls. Figure 2 provides an overview of each river reach.

Remedial Design (RD) and Remedial Action (RA) work at the Site has been phased in order to achieve proper source control prior to beginning down river work. Phase I RA work for the Upper River, which included the Tecumseh plant soils, groundwater, and adjoining riverbank soils was completed in 2004. Phase II RA work for the Upper River included addressing the Near-Shore Sediments, Armored Areas, and Soft Sediment deposits was completed in 2007.[2] The Upper River floodplains have not been addressed due to access limitations. Remedial work in the Lower River has not been implemented.

1.2 Site History

The following information was obtained from the ROD. The Sheboygan Harbor was constructed at the mouth of the Sheboygan River in the early 1920's. In 1954, the lower Sheboygan River, namely the channel upstream of the 8th Street Bridge, was added as a part of the United States Army Corps of Engineers (USACE) maintenance dredging. Between 1956 and 1969, a total of 404,000 cubic yards of sediment were removed downstream of the 8th Street bridge between 1956 and 1969. The portion of the river above the 8th Street Bridge has not been dredged since 1956.

[2] The Near-Shore sediments are defined as sediment segments that may be found in the bank or river bed adjacent to the shoreline of the former Tecumseh plant, along the north side of the Sheboygan River as described in the *External Source Assessment* (ESA). Armored Areas were portions of the river bed that had been covered with a geotextile fabric, a one-foot layer of run-of-bank material, another layer of geotextile fabric, gabions (cages filled with larger stone pieces or cobbles) along the sediment periphery, and cobbles to fill in any gaps between the gabions and atop the fabric (i.e. armoring) to stabilize the river bed and prevent a release of contaminated sediments into the river. Soft Sediments are defined as the sediment found on the river bed as a result of the river deposited suspended material where sediment was measured greater than 1 foot thick during the 2004 pre-design investigation.

Prior to 1969, the USACE disposed of the sediment from the Harbor in an authorized deep water disposal area in Lake Michigan. However, there has been no dredging in the Sheboygan Harbor since the United States Environmental Protection Agency (USEPA) and Wisconsin Department of Natural Resources (WDNR) determined that the sediment was unsuitable for open-water disposal. Sediment sampling and analysis performed by the USACE in 1979 detected what was reported as moderate to high levels of lead, zinc, PCBs, and chromium. According to the ROD, the USACE last dredged the Harbor mouth in 1991 however; in 1982 a policy to discontinue maintenance dredging was promulgated due to the discovery of PCBs in the sediments.

In June 1979, the USACE collected 11 cores from the Harbor area ranging in depth from 1.5 to 9 feet. The analytical results revealed greater PCB and metal levels in the sediment of the Inner Harbor than in sediment of the Outer Harbor. In October 1979, the USACE collected a second round of 21 cores. The analytical results indicated an increase in PCB concentrations with the distance upstream from the Harbor and with the depth of sediment.

Examination of 98 sediment profile samples collected by the USACE in December, 1982 from the Harbor indicated the presence of PCBs in the surface sediment of the Harbor. The possibility that this sediment may be classified as regulated material was reason for discontinuing maintenance dredging.

Tecumseh Products Company (Tecumseh) was located adjacent to the Sheboygan River in Sheboygan Falls and operated from 1966 to 2003. Tecumseh was considered a Potentially Responsible Party (PRP) when PCBs were discovered in coolant fluids disposed to sewer lines that discharged to the Upper River reach of the Sheboygan River. The contamination level was high in the sediment adjacent to the Tecumseh Plant, but decreased in concentration downstream. Tecumseh discontinued use of PCB impregnated coolant fluids in the early 1970's.

In 1978, the WDNR conducted a survey and found numerous industries that discharged contaminants to the Sheboygan River. Some had levels of PCBs discharged to the river and others had heavy metals in their discharge. In 1985, the outfall from Thomas Industries, located along the Inner Harbor, contained PCBs when analyzed by the WDNR on two different dates. A sample collected on June 13, 1975, from the storm sewer outfall had a concentration of 125 parts per billion (ppb) PCBs. A second sample collected on August 19, 1975, had a PCB concentration of 88 ppb. The Kohler Company, downstream of Sheboygan Falls and adjacent to the Middle River, was found to have heavy metal discharges to the river above the permit limits in the 1970s. In addition, the Kohler Landfill Superfund Site is located on the banks of the river.

The USEPA placed the Sheboygan River and Harbor Site on the National Priorities List (NPL) in 1986. Remedial work performed since that time includes source removal at the former Tecumseh property and removal of 94.1% of the impacted sediment in the Upper River. This work was completed in 2007.

1.3 River Characteristics

1.3.1 Upper River

The Upper River consists of discrete Soft Sediment deposits and non-Soft Sediment areas which include a mix of Soft Sediment, rocks, cobbles, and bare river bottom. The sediment contamination in the Upper River acts as a partial source of PCB-contaminated sediment for the rest of the river system during high river conditions in addition to the other sources identified in the Middle River, Lower River, and Inner Harbor. PCB sampling results in 1989 and 1990 showed concentrations from 1.4 to 4,500 ppm. PCB-contaminated sediment was removed near the former Tecumseh facility in 1990 and 1991. Subsequent sampling of the same area showed concentrations ranging from non-detect to as high as 840 ppm. The concentrations of PCBs in the sediment vary due to the dynamic nature of this river reach.

During the 2006/2007 seasons, sediment was removed from nine (9) Armored Area Remedial Management Units (RMUs) and 122 Soft Sediment RMUs. The Soft Sediment RMUs and Armored Areas removed in 2006/2007 contained the majority of the PCB mass within the Upper River. The Upper River remedial action conducted in 2006 and 2007 removed 20,728 cubic yards of sediment and 552 pounds of PCBs for a total mass removal percentage of 94.1% exceeding the PCB mass reduction objective of 88%. The Upper River SWAC was reduced from 5.2 ppm to 1.96 ppm and based on the mass removed, should reach a SWAC of 0.5 ppm over time.

1.3.2 Middle River

The Middle River consists of Soft and non-Soft Sediment areas similar to the Upper River, but due to the hydrodynamics of this reach, the areas of Soft Sediment are shallower and more widely scattered. The Waelderhaus dam, which marks the end of the Upper River, prevents most of the Upper River sediments from migrating downstream. As such, the Middle River sediments act as the primary source of PCB-contamination for the rest of the Lower River system. Information collected during the Remedial Investigation (RI) indicated PCB concentrations ranging from non-detect to 8.8 parts per million (ppm). WDNR sediment trap data, between 1990 and 1996, showed PCB concentrations ranging from 1.4 to 3.0 ppm. Samples obtained by the WDNR in 1997 indicated PCB concentrations ranging from 0.6 ppm to 37 ppm. Like the Upper River, sediment in the Middle River is likely to vary due to the dynamic nature of this river reach.

1.3.3 Lower River

The flow rate in the Lower River decreases leading to a more continuous layer of Soft Sediment throughout the reach. Based on the hydrodynamics of this reach, the Lower River is where much of the sediment released in the Middle River is deposited. During the RI, sample results showed PCB concentrations as high as 67 ppm adjacent to the WPSC Camp Marina MGP site, a site undergoing investigation and remediation under the oversight of the USEPA. WDNR sediment trap data, from 1994 to 1996, showed PCB concentrations ranging from 1.9 to 4.2 ppm.

1.3.4 Inner Harbor

The Inner Harbor is generally the river reach where upstream Soft Sediment is deposited. However, while the Inner Harbor is generally depositional, deposition occurs primarily between the 8th Street Bridge and the harbor mouth. The area between the Pennsylvania Bridge and 8th Street Bridge has little deposition and shows evidence of scour. RI sampling indicated PCB concentrations as high as 220 ppm in the Inner Harbor; however these levels were detected in 1979 and exist many feet below the surface. Surface (0-6 inches) sampling conducted in 1987 showed PCB results ranging from 0.17 to 5.8 ppm. Surface (0-6 inches) sampling conducted in 1999 showed PCB results ranging from 0.38 to 5.3 ppm. As a general rule, PCB concentrations increase with depth between the 8th Street bridge and harbor mouth. This is not the case for certain areas between the Pennsylvania Bridge and 8th Street Bridge.

1.4 Summary of Previous Fish Species Evaluation

This section is provided to demonstrate how sediment cleanup goals were established. The consumption of the fish is the primary exposure route for human receptors of the PCBs in the river sediments. The PCBs in the river sediments bioaccumulate in the fish from contact with impacted sediment, surface water, or by ingesting prey that are impacted. An understanding of the process in developing the sediment PCB cleanup goals based on allowable fish PCB concentrations is important in the evaluation of long-term assessment of remedial success.

There is considerable seasonal fishing in the Middle River, Lower River, and Inner Harbor.[3] Fishing is more limited in the Upper River. According to WDNR surveys, most fishing occurs during spring and fall salmon and trout runs. Resident fish taken from the Sheboygan River, between the Sheboygan Falls dam and the mouth of the river, fall into the "do not eat" consumption advisory category. Migrating trout and salmon are subject to Lake Michigan advisories as they obtain most of their PCB body burden from Lake Michigan. One objective of the sediment removal is to reduce the concentrations of PCBs in the fish over time so all the consumption advisories are lifted.

The physical setting of the Site provides several possible pathways of exposure to the contamination in the sediment: dermal contact, ingestion of contaminated surface water or sediment, and consumption of fish contaminated by sediment. The sediments are contaminated with PCBs, hydrophobic organic compounds that will strongly prefer to partition to organic material. It is assumed that the most significant exposure is from contaminated sediment, where virtually all PCBs reside, and not the surface water. In general, there is likely to be only limited direct contact with the sediment itself (i.e., dermal and/or ingestion pathway). Many studies have found that bioaccumulation of hydrophobic organic sediment contaminants is the critical and dominant fate of these compounds in the environment. As such, the human health analysis assumed that for this Site, the pathway presenting the majority of the risk and likely to yield the most protective assessment of risks is consumption of contaminated fish and not dermal contact. This does not imply that no other exposure pathways are occurring at this site, only that there is a focus on the pathway which contributes the majority of risk, the fish ingestion pathway.

[3] Much of the information presented in this section was obtained from the ROD.

Tecumseh collected fish tissue samples between 1990 and 1998 that showed smallmouth bass and white sucker PCB concentrations ranging from 1.3 ppm to 23.1 ppm. Carp had PCB levels ranging from 10.5 to 200 ppm. In general, the highest fish tissue PCB concentrations were found nearest the Tecumseh plant and tended to decrease downstream. The most recent studies by WDNR found that carp and smallmouth bass had the following mean concentrations, respectively:[4]

- Upper River 16.43 and 0.44 ppm
- Middle River 12.5 and 2.73 ppm
- Lower River 2.32 and 1.35 ppm, and
- Inner Harbor 1.45 and 2.0 ppm.

An Interim Monitoring Program (IMP) was performed by Blasland, Bouck, and Lee, Inc. (BBL) that consisted of the collection of smallmouth bass and white suckers at Rochester Park in the Upper River reach and between the dams in the Upper River reach.[5] During the baseline and subsequent post-remedial monitoring, these areas are known as Upper River 1 and Upper River 2 Sites. These fish were also collected near Kiwanis Park or in the Lower River reach. The range of smallmouth bass PCB concentrations detected is as follows:

- Upper River 1 2.1 to 10.3 ppm
- Upper River 2 1.1 to 7.3 ppm, and
- Lower River 0.82 to 3.7 ppm.

The PCB concentration decreased between 1990 and 2002 as seen in Charts 2 and 3 of Appendix 3. The results for smallmouth bass in the Upper River Site 1 show a general decreasing trend and the regression shows a decrease with a moderate correlation. For Upper River Site 2, the decrease has a very strong correlation for the regression. The range of white sucker concentrations detected is as follows:

- Upper River 1 2.7 to 18.3 ppm
- Upper River 2 1.9 to 8.7 ppm, and
- Lower River 1.4 to 3.9 ppm.

These PCB concentrations also decreased between 1990 and 2002 based on a comparison of the 2002 result to the 1990 result. While a regression of all the data between this period indicates a slight increase, the correlation is very weak (Chart 4, Appendix 3).

In 1996, the United States Environmental Protection Agency (USEPA) performed a baseline risk assessment for the Site, relying on data available from WDNR on fish tissue concentrations from 1994. The USEPA assessed sport fishing and subsistence fishing. The sport fishing scenario

[4] Most recent WNDR data available was used. This ranged from 1990 (Inner Harbor) 2000 to 2004 (others), depending on species and reach.
[5] Conducted in 1994, 1995, 1996, 1998, 1999, 2000, 2001, and 2002.

was developed to represent a mid-point or central tendency estimate of risk, and the subsistence fishing scenario was developed to represent an upper-bound estimate of risk. The sport fishing scenario variables were chosen to be reasonable, and not overly conservative in their assumptions. The USEPA used Great Lakes specific fish consumption information, available from an assessment of Michigan anglers. It was assumed that of the total amount of fish consumed; only half of the fish came from the Sheboygan River. This is accounted for in the fraction ingested term. For the upper-bound subsistence scenario, USEPA used a conservative estimate of all fish ingested coming from the Sheboygan River. Through this risk assessment, USEPA determined the following risks:

- Average $1x10^{-4}$ to $1x10^{-5}$
- Subsistence $1x10^{-2}$ to $1x10^{-4}$

In order to address unacceptable risks at the Site, USEPA calculated sediment cleanup goals, protective of human health. The USEPA made a conscious decision to model and be protective of the more contaminated resident fish species of smallmouth bass and carp at the Site. By selecting a cleanup goal protective of bass (or carp), the cleanup will be protective of the lesser contaminated species such as walleye, trout, salmon, and steelhead. This choice adds a layer of conservatism to allow for more fish consumption at the Site, especially of several non-resident species. Therefore, a cleanup based on resident species may allow for possibly more consumption of other types of fish that may occur as advisories are lifted.

To calculate a sediment cleanup goal or surface goal, target fish tissue levels were placed into a Biota to Sediment Accumulation Factor (BSAF) equation to estimate the sediment concentrations that would meet these fish targets. The term "surface goal" is more appropriate for sediment at the Sheboygan Site than the usual cleanup goal because what is calculated is a surface that the fish can be exposed to that will result in the target fish tissue levels. Looking at the Site, it's necessary to calculate what the residual concentration is after dredging certain levels, or what's left after taking out everything above a certain concentration. In the case of the Sheboygan Site, it's the target Surface Weighted Average Concentration, or SWAC, of the river after remediation.

The BSAF methodology is the same as used in the *Ecological Risk Assessment* and is similar to what was used in the *Remedial Investigation/Feasibility Study (RI/FS)*, except USEPA risk assessments include total organic carbon (TOC) and lipids in the calculation. Note that BSAFs were only calculated for smallmouth bass and carp and not the lesser contaminated migratory species of salmon and steelhead, to provide protection for anglers who consume several different species of fish. BSAFs were calculated for smallmouth bass because of their prevalence in the river and for carp as an indicator of concentrations in fish with higher lipid levels.

The analysis begins by calculating a site-specific BSAF using PCBs in sediment, TOC, PCBs in fish, and lipid data. The site-specific BSAFs are derived from the following values: RI/FS total river bed SWAC, and NOAA Risk Assessment TOC, and 1994 fish data (from FIELDS database). However, because the data in the RI/FS were given as summary statistics, the USEPA could not derive its own sediment surface area weighted PCB that is normalized to TOC. This

term is necessary for the BSAF model. Therefore, the SWAC derived in the RI/FS is not useable in calculating a site-specific BSAF. Because the NOAA ecological risk assessment for the site also developed BSAFs, USEPA considered the NOAA BSAFs, and found that they were quite similar to the human health based BSAFs. Using the BSAFs, the USEPA determined the sediment cleanup goals as follows:

Sediment Cleanup Goal = (TOC x Conc. Fish) / (site specific BSAF x % lipid)

As can be seen, the sediment cleanup goal is entirely dependent on the accuracy of the BSAF. Therefore, the concentrations of PCBs in the fish may reach the target levels although the sediment contains more than the sediment cleanup goal. Conversely, the sediment cleanup goal may be reached before the fish actually reach the target levels. We have noted that prior to remediation; the PCB levels in the most recent fish collected in the Upper River as compared to the characterization sediment results have less PCBs than predicted by the BSAF. Therefore, the fish target levels may be reached before the sediment cleanup goals.

Target fish tissue levels corresponding to the SWAC Sediment Cleanup Goal include the following:

- Smallmouth Bass 0.31 ppm (skin on fillet)
- Walleye 0.63 ppm (skin on fillet)
- Trout 0.09 ppm (skin on fillet)[6]
- Carp 2.58 ppm (skin on fillet)
- Catfish 2.53 ppm (skin off fillet)

Using the BASF and these goals, the USEPA determined that the sediment cleanup goal SWAC is 0.5 ppm. The USEPA model predicts that once the SWAC reaches 0.5 ppm, the fish target levels will be met.[7] However, as the sediment cleanup goal was determined by modeling, the fish could reach the goals before the SWAC is 0.5 ppm. Conversely, the SWAC could reach 0.5 ppm and the fish do not reach the goal.

[6] This is a migratory fish species and most PCB burden is from Lake Michigan.

[7] There could be a lag period as older fish may have PCB concentrations reflective of when the sediment was more impacted.

2.0 Sampling and Analysis

2.1 Summary of Baseline Sampling Plan

The baseline sampling and analysis of fish species was conducted consistent with the *Post Remedial Monitoring Plan* (PMP) and the *Quality Assurance Project Plan* (QAPP). These plans were conditionally approved with comment on August 13, 2008. The PMP, which was developed with assistance from WDNR and the USEPA, determined statistically the number of fish to collect in each reach as well as in two sites within both the Upper and Middle River reaches.

Smallmouth bass, carp, walleye, and catfish were selected as they have assigned target goals in the *Record of Decision* (ROD). According to the ROD, smallmouth bass and carp are the more contaminated resident fish species at the Site and the USEPA selected these fish to determine cleanup goals believing that if these fish met the goals, the lesser contaminated species such as walleye, trout, salmon, and steelhead would be protected. Therefore the monitoring included these fish as well as walleye and catfish. Walleye and smallmouth bass will also help evaluate risk reduction for sport fisherman while carp and catfish for sustenance fisherman.

Rock bass and longnose dace were added because catfish and walleye are rarely caught according to WDNR. Juvenile carp and white suckers were added at the suggestion of the WDNR. Initially, the draft PMP that was approved stated that "carp or white suckers" were to be caught. After realizing this may not lead to a statistically valid sample set, WDNR and Pollution Risk Services (PRS) decided that both should be collected and the final PMP was written accordingly. The following table outlines the final fish species collection requirements.

Fish Species (size)	Number of Samples Per River Reach					
	Upper (Site 1)	Upper (Site 2)	Middle (Site 1)	Middle (Site 2)	Lower	Inner Harbor
Smallmouth Bass (10-17")	8	8	8	8	8	8
Adult Carp (15-25")	16	16	8	8	8	8
Juvenile Carp (3-8")	16	16	8	8	8	8
Adult Suckers (8-16")	8	8	8	8	8	8
Juvenile Suckers (3-8")	8	8	8	8	8	8
Rock Bass (5-9")	8	8	8	8	9	9
Longnose Dace (1-4")	8	8	8	8	8	8
Walleye (12-22")	8	8	8	8	9	9
Catfish (12-22")	8	8	8	8	8	8

The WDNR requested that the Upper and Middle River be divided into two sites per reach. The rational was stated as "Sampling stations should include the following number of sites per reach in order to represent the amount of contaminated sediment that will be removed and the variability expected. Specimens may be collected at different locations within a reach and collections sites within a reach can vary in exact location and length of river sampled (distance and location data should be reported in annual reports):"

As such, the collection included two sites in the Upper River – one from the former Tecumseh facility to River Bend reach and another from the Riverbend to Waelderhaus Dam in Kohler. For the Middle River, fish were collected from two sites within the reach: between the Waelderhaus dam and the Kohler landfill and downstream of the Kohler landfill to the C&NW Railroad Bridge.

The fish collection would target the habitats most conducive for each species. Table 1 presents a summary of the fish species, known habitat, and range. This information was primarily obtained from *Fishes in Wisconsin* (1983) and is intended to provide a summary of the characteristics of the target species and their typical habitat and is not intended to describe the habitats where the target species where encountered in the Sheboygan River. The habitats where fish were collected in 2008 are shown in Figures 3 through 6.

2.2 Baseline Procedures

After receipt of the Scientific Collectors permit on August 19, 2008, collection began in the Upper River reach before generally proceeding in order to the Lower River, Inner Harbor, and finally, the Middle River reaches. Due to an inability to initially collect Longnose Dace and juvenile species, the Upper and Middle River reaches were revisited. The fish collection occurred between August 19, 2008, and September 17, 2008. Table 2 provides a summary of the daily fish collection. Figures 3 through 6 show the locations where fish were collected in each reach.

With one exception, all fish were collected using electro-fishing equipment. The electro-fishing equipment used to collect fish, a Smith Root, Inc. Model 2.5 GPP, was either a boat-mounted array set-up or a hand held wand, depending on the location and species to collect. Due to the inability to obtain longnose dace with this method, seining was employed for this species. Electro-fishing was performed by selecting the appropriate pulsed DC power setting to stun-fish. The appropriate DC pulse setting (30 or 60) was made based on what set-up was used (30 for the wand, 60 for the arrays). At that point the percentage of output power was adjusted from 0-100 to stun the fish size needed without stunning more fish than needed or killing the fish. This percentage was determined by trial and error. Current was then applied to the river water by closure of the operating switch (i.e. foot pedal) while the generator and control equipment were operative. Once fish were stunned, the fish were collected with dip nets. The fish collected in the dip nets were identified for targeted species, measured to confirm they met size requirement, and were either retained in a live well or on ice in an insulated cooler until collection was completed.

Both shore and quarter arc seining was performed to collect Longnose Dace (dace). To collect dace, a seine with dimensions and mesh size appropriate for the dace and collecting conditions was selected (20' long with 1/4" mesh). For shore seining, the seining was performed by maintaining the seine approximately perpendicular to a shoreline, with one end at or near the edge of the water and the other held out as far out from shore as practicable. The seine was pulled along the shore with both ends moving at about the same rate. At the end of the seine haul, the outer end was moved around to the shore, and the entire seine was pulled out of the water while maintaining the leadline on the bottom as practicable. The seine was pulled onto shore until the leadline was completely out of the water.

For quarter-arc seining, the seining was performed by holding one end of the seine in one place at or near the shoreline and first pulling the other end of the seine out into the water perpendicular to the shore. The water-end of the seine was moved down and back toward shore so that the outer end of the net moves approximately through a quarter of a circle. When the outer end of the net reaches shore, the entire seine was pulled out of the water while maintaining the leadline on the bottom as practicable. The seine was pulled onto shore until the leadline was completely out of the water.

All fish samples were processed and packaged in accordance with the procedures described in the *WDNR's Division of Environmental Standards Field Procedures Manual* in addition to the PMP. During and after collection, samples were held in a live well or on ice in an insulated cooler. Samples remained whole and ungutted. Each fish was numbered and the following recorded in field log book:

- Length,
- Species[8],
- Sex (if possible),
- Age (if possible),
- Sample location,
- Other distinguishing features,
- Sampler(s), and
- Any unusual skin lesions, tumors, or other irregularities should also be noted.

The individual fish were wrapped in aluminum foil, then in freezer paper, and finally taped securely so that the package did not open during shipment. All samples were frozen as soon as possible after collection. No composite samples were created or analyzed.

For shipment to the laboratory, all fish samples were placed in a Ziploc bag or industrial grade trash bag, a label affixed and placed into second Ziploc bag, and then into a cooler with double bagged ice on the bottom of the cooler. The cooler was filled with fish samples, leaving enough room for double bagged ice on top of samples. A chain-of-custody form was placed in a sealable plastic bag and taped to the inside of cooler lid. The coolers were collected by the laboratory and as such custody seals were not used.

[8] Species was determined by SOP #10, *Fish Identification,* and with assistance from CH2MHill.

The laboratory prepared and analyzed the samples in accordance with the analytical method USEPA SW846-8082 Modified and Laboratory Standard Operating Procedures (SOPs) developed in accordance with method 8082 including the following:

- GB-L-001, Rev .0 – Tissue Preparation
- GB-L-003, Rev. 0 – Lipids
- GB-O-031, Rev. 1 – Extraction
- GB-O-034, Rev. 1 – Sulfuric Acid Cleanup
- GB-O-036, Rev. 1 – Florosil Cleanup
- GB-O-026, Rev. 2 – PCB Analysis

The analysis to be performed on fish included total PCBs (Aroclor basis), percent lipids, and gender. The PCB method detection limit was 0.019 mg/kg.

QA/QC samples consisted of a matrix spike and matrix spike duplicate. A minimum of one matrix spike/matrix spike duplicate analysis was performed with every batch of fish being analyzed for PCBs. Batch size was limited to no more than 20 samples. For analysis of PCBs in tissues, the QA procedures in USEPA's *Statement of Work for Organic Analysis* (Feb 1988) was used, including laboratory blanks consistent with required detection limits, and initial and continuing calibration to verify recoveries.

2.3 Deviation from Plan

The only field deviation was not all targeted fish were collected. Table 3 provides a summary of the success of the collection process. It was anticipated that walleye or catfish would not be collected and as surrogates, rock bass and longnose dace were used. While we did not expect to catch any walleye or catfish, some were collected. Catfish were collected from the Middle, Lower and Inner Harbor River reaches. Walleye were collected from the Middle River and Inner Harbor reach.

No juvenile carp could be obtained. According to *Fishes of Wisconsin* (1983), carp typically spawn in late in May or early June and the incubation period is 3 to 16 days depending on temperature. Young carp grow very rapidly and by middle August have an average size of almost four inches and a range of 3 to 5 inches. Based on this growth rate, it may be difficult to catch juvenile carp in the 3 to 8 inches range specified in the PMP in late August and early September. Earlier fish collection of juvenile carp should be considered in the future.

For adult White Suckers, the target numbers were reached at both Upper River sites and one of the Middle River site. The target goal was only missed by one fish in Middle River 1 and the number collected was similar to WDNR efforts in 1999 and 2004. Failure to collect the target goal in the Lower River (2 of 8) and in the Inner Harbor (0 of 8) is attributed to lack of habitat. Very little areas with vegetation and warm shallows of estuaries and bays, the preferred habitat of white sucker, were observed in the Lower River and none were observed in the Inner Harbor (see Figures 5 and 6). Information on habitat was obtained from *Fishes of Wisconsin* (1983).

WDNR has also not had much success collecting this species in the Lower River or Inner Harbor reaches. Failure to collect the target goal of juvenile White Suckers is also attributed to lack of habitat in the Lower River and Inner Harbor.

Finally, the Sheboygan River does not appear to provide an abundance of quality habitat for Longnose Dace being too deep in many areas. However, there is some suitable habitat where shallows are present (i.e. Upper River, Site 1 and Middle River, Site 1 and 2). The water is too deep in the Lower River and Inner Harbor reaches to provide suitable habitat. It is also unsuitable in Site 2 of the Upper River reach. The baseline collection obtained 61% of the expected target goal. Based on the results as compared to habitat requirements, the goal of collecting certain fish in certain locations was optimistic at best. If the completion success is based on a target goal limited to the reaches conducive to dace, a 65% completion percentage was obtained. For the adult fish in the ROD that were expected to be caught, carp, suckers and smallmouth bass, the success rate is 76%.

The inability to collect the target number of fish for some of the species can increase the chances of a Type II error. That is, believing the fish tissue PCB results are less than the action level when they are not. Reducing the number of samples reduces the confidence in the decision. This is the baseline sampling event and this decision is not being made. As such, this error cannot occur.

There were no deviations from the laboratory method in order to analyze or report the fish tissue results.

3.0 Sampling Results

3.1 Fish Tissue Results

A summary of the results is provided in Appendix 1 while copies of the analytical reports are provided in Appendix 2 as a compact disc. Except for catfish, all fish samples that were analyzed were skin on fillets. Catfish samples analyzed were skin off fillets. A summary of the baseline statistics is provided in Table 4. The adult fish tissue PCB results tend to decrease moving from the Upper River to the Inner Harbor. An exception is that in almost every case, the PCB concentrations were higher in the Lower River reach than the Middle River 2 site. This would correspond to the increase in PCBs in the sediment in the Lower River and Inner Harbor due to the identified sources in these reaches. Chart 1 in Appendix 3 provides a graphical summary of the PCB concentrations of the adult fish that were most successfully collected across reaches demonstrating the decreasing trend from upstream to downstream

Adult carp tended to have the highest mean PCB concentrations of the fish species, due to being the most prevalent species collected. Although for the few caught, catfish had the highest mean concentration. These are bottom feeders and the results are not unexpected compared to the sport fish. As will be discussed in the following section, the results are higher than the most recent Interim Monitoring results. They are also higher than the older results from the Interim Monitoring Program. Adult carp had the highest mean concentration in the Upper River. However, in both sites of the Middle River, as well as the Lower River and Inner Harbor reaches, this was the only fish caught that many of the individual results were less than the ROD goal.

The age of the fish was determined by EA Engineering, Science, and Technology, Inc. who performs fish aging for the Fox River monitoring program and was recommended by Foth Infrastructure and Engineering LLC (Foth). All of the adult fish were of the age where they should have been sexually mature. None of the fish collected appeared to be of an age that exceeded the usual published longevity period. The majority of the fish collected were males.

3.2 Data Quality

The laboratory performs a validation of the analytical procedure using the quality control sample results, as applicable. This validation is discussed in the Narrative section of each of the 13 lab reports generated by this sampling and analysis event. The laboratory reported the following:

- All samples were extracted and analyzed within the allowable holding time,
- There were no problems with the initial or continuing calibrations,
- There were no problems with duplicate samples,
- All laboratory control spikes were within the allowable range, and
- PCBs were not detected in the method blanks.

There were problems with the surrogate recoveries in 36% of the samples. The problem was that the surrogates could not be evaluated against the control limits due to sample dilution. This should not affect the data as for the 64% that could be compared, there were no problems.

There were 9 occasions where the laboratory identified problems with the matrix spike (MS)/matrix spike duplicate (MSD) results. The purpose of MS and MSD is to identify method accuracy and precision. Matrix spikes are generated by the addition of a known amount of target analyte to a sub-sample. Unless the added target analyte is infused within a similar matrix, the ability of the matrix spike to represent method performance is limited; rather, matrix spikes often assist in the identification on chemical interferences inherent in the matrix. The efficiency of any method to dissolute an aqueous standard solution will always be significantly greater than a real world sample.

Five of the 9 samples had no recovery (0%) of the matrix spike or matrix spike duplicate for PCB 1242. None of these fish samples contained PCB 1242 and as such, this lack of recovery does not affect the data. The MS/MSD results in two of the samples actually fell within the control limits. However, the laboratory had to dilute the samples heavily making it difficult to discern the spike from the actual background PCB and identified this as a possible problem. In the other two samples, the MS/MSD recovery exceeded the control limit of 130%. Both samples had relatively high levels of PCBs which based on the MS/MSD results may be biased high. However, neither sample was identified as an outlier and both had PCB concentrations less than the mean for that reach. As such, it does not appear the results are biased high. None of the MS/MSD problems or potential problems appears to affect the data or conclusions drawn from the data.

Differences in the matrix between fish are more marked than in other environmental media such as soil or groundwater and could be due to the large differences in lipid content. However, according to the laboratory, the matrix spike problem is not attributed to this difference in lipid content. According to Mr. Ted Noltemeyer, Project Manager at PACE Analytical, "The analysis of fish is typically more of a challenge than waters and soils, but our methods and cleanups take care of that. The MS/MSD recoveries here are affected by the relatively high concentrations of PCBs in the samples, not by the matrix itself. Bottom line is most MS/MSD samples required dilutions which negated the ability to appropriately measure the spike recoveries."

4.0 Data Analysis

4.1 Summary Statistics

Summary statistics are provided with the data in Appendix 1 and in Table 4. The data distribution and upper 95% confidence levels (95% UCL) were calculated using ProUCL as requested by USEPA. ProUCL documentation is provided in Appendix 4. Consistent with historical results, the variability of the data was rather low and the majority of the data had a normal distribution.[9] The distribution was calculated by ProUCL using a variety of goodness-of-fit methods including Shapiro-Wilk, and Kolmogorov-Smirnov tests. Knowledge of the distribution is needed to determine the proper methods for calculating 95% UCL as well as other statistical tests. Coefficient of variations ranged from 0.22 to 1.67 with an average of 0.59. The highest coefficient of variations were observed in adult carp with the largest variation observed from Middle River site 1 and the next largest variation at Upper River site 2.

Outliers are inevitable in data sets originating from environmental applications. Outliers are defined to be an observation that does not conform to the pattern established by other observations (Gilbert, 1987). Prior to calculating the UCL, ProUCL recommends an outlier analysis. In the case of the fish tissue data from the baseline monitoring, a few of the results appeared to be outliers because the concentrations was significantly greater than the mean for the same species within the same reach. As such, ProUCL was also used to evaluate the possibility of outliers. ProUCL uses both the Dixon and Rosner outlier tests and uses the Dixon test where the data sets are less than 25 samples. Using ProUCL, a total of six outliers was detected (Appendix 4). These outliers and the significance levels at which they were identified are summarized below.[10]

Location	Adult Carp	Adult Sucker	Dace	Catfish
Middle River 1	22.8 ppm @ 0.01	19.9 ppm @ 0.1	17.8 ppm @ 0.1	None
Lower River	44.9 ppm @ 0.05	None	None	28.4 ppm @ 0.1
Inner Harbor	9.14 ppm @ 0.1	None	None	None

The outlier analysis identified six samples that were not representative of the river reach. Reasons why these fish are not representative are discussed in the following. The two fish that represented the outliers in the Lower River reach were a carp and a catfish. They smallest fish within their species for the reach but had the highest levels of fat (lipids). As such, the length and weight variables can not explain the differences. The higher levels of lipids may be connected to the only other variable that could explain the difference, habitat. The carp outlier caught in the Lower River could be from the Upper River; its concentration of 17.8 mg/Kg is very close to the mean for the Upper River (25.9 mg/kg). The catfish outlier in the Lower River could also have been from the Middle River; site 2 offers suitable habitat for catfish. The Middle River habitat, where the shoreline is much less developed than the Lower River, may have produced a more abundant food supply leading to the large fat content. According to *Fishes in Wisconsin*, carp range extensively and are capable of jumping dams or falls. As such, it's not

[9] Historical results were provided by the USEPA and WDNR. These included the BBL Interim Monitoring Program data and WDNR fish advisory studies. The data was provided in the *Post Remedial Monitoring Plan.*

[10] The significance level is the risk of a false rejection.

unexpected that an Upper River carp would be found downstream. Catfish are also known to move great distances and the fish caught in the Lower River could have originated from Middle River.

The PCB content of the adult carp collected in the Inner Harbor is more than 400% larger than the mean for the remainder of the species in this reach. The size and fat content were within the median of this species collected from this reach. As such, increases in PCB content cannot be attributed to these variables. The only other variable is habitat. The PCB result is very close to the mean results for this species in the Lower River.

The adult carp collected in the Middle River was older and larger than other fish of this species collected in this reach. It also had the second highest fat content. At six years old, it was 50% older than the other fish collected from the reach and near the end of its life span. This sample may not be representative adult carp in this reach because of its age. The adult sucker collected in this reach was the same age and size (weight, length, fat) as the other fish of this species collected in this reach. White suckers are also known to move about extensively. The longnose dace outlier had a PCB content (17.8 mg/Kg) that was much closer to those collected in the Upper River reach (mean 13.3 mg/Kg, maximum 17.6 mg/Kg) than those in the Middle River reach (mean 7.8 mg/Kg). While dace are not known to move much, there size would indicate the possibility of being washed over the dams from the Upper River during high river level events.

Based on this information, the outliers could be eliminated when calculating the summary statistics for the fish species within the reach. However, Region V USEPA requested that this not be done since fish from other reaches can migrate between reaches and represent possible exposure to humans via consumption. As the outliers would only be eliminated in the comparison of fish between sites, reaches, fish species and historical data but not in the covariant analysis, elimination of the outliers has no bearing on protection of human health. Elimination of the outliers allows a clearer understanding of differences between sites, reaches, fish species, and historical data. Regardless, the outliers were not eliminated from the statistical comparisons discussed.

Data analysis included an analysis of means using the t-test and analysis of variance (ANOVA). The t-test was performed based on unequal variance after an assessment indicated that was the most appropriate test. As far as the appropriateness of the test, PRS reviewed several publications such as *A Guide for Selecting Statistical Techniques for Analyzing Social Science Data* (The University of Michigan, 1981), *Intuitive Biostatistics* (Oxford University Press, 1995), *Lake and Reservoir Bioassessment and Biocriteria Technical Guidance Document* (USEPA, 1998) and *Test Methods for Evaluating Solid Waste, Physical/Chemical Methods* (USEPA, 2007). All of these indicated the t-test was an appropriate method for the comparisons being performed. This was also the test proposed in the approved *Lower Fox River Baseline Monitoring Plan.*

Both tests can evaluate if there is a significant difference between data sets. ANOVA is actually a collection of statistical methods that can evaluate the conceptual classes of data variability, fixed effect, random effect, and mixed effect. The one-way ANOVA is used to test differences

in two or more independent groups. Since the t-test can be used for two groups, the one-way ANOVA is typically used for analysis of three groups. The ANOVA was used with the t-test as an additional test of differences based on a different approach to add a measure of robustness to the evaluation. The tests of differences were performed to evaluate the following:

- Differences in fish species PCB concentrations between sites in the Upper and Middle River reaches,
- Differences in fish species PCB concentrations between the river reaches,
- Difference of fish species PCB concentrations compared to all fish collected, and
- Difference with historical data

No statistical analysis was performed to evaluate differences in PCB concentrations among males and females by reach. Typically, there were insufficient females collected to evaluate. In addition, differences due to age were not evaluated due to the variability of the ages. Neither sex nor adult age would appear to be a factor in decision making as anglers would not differentiate consumption patterns based on these factors.

Based on the redundancy of the t-test and the ANOVA tests, the Mann-Whitney test was used when the t-test and ANOVA results differed and box and whisker plots (boxplots) were also generated. This testing was done at the request of the USEPA. The Mann-Whitney test is a non-parametric test for assessing whether two independent samples of observations come from the same distribution. It is virtually identical to performing an ordinary parametric t-test on the data after ranking over the combined samples. The null hypothesis in the Mann–Whitney test is that the two samples are drawn from a single population, and therefore that their probability distributions are equal. It requires the two samples to be independent, and the observations to be ordinal or continuous measurements, i.e. one can at least say, of any two observations, which is the greater.

In descriptive statistics, a box-and-whisker is a convenient way of graphically depicting groups of numerical data through their five-number summaries (the smallest observation (sample minimum), lower quartile (Q1), median (Q2), upper quartile (Q3), and largest observation (sample maximum). Boxplots can be useful to display differences between populations without making any assumptions of the underlying statistical distribution: they are non-parametric. While the boxplots provide a convenient way of comparing data, they were not used for making decisions concerning the data.

Appendix 5 provides the results of the analysis. The t-test and ANOVA analyses were performed in Excel using equations obtained from *Practical Statistics for Analytical Chemists* (1987). The spreadsheets were validated using examples from the book. The analysis was only performed for the fish that were caught in sufficient quantities needed for each type of analysis. Juvenile fish were also not evaluated because of the infrequency of collection and the failure to collect these in the past.

Boxplots were generated using ProUCL then exported to Excel for formatting. The Mann-Whitney test was run using U-Test, a Southwestern Medical Center statistical software program.

The results were exported to Excel for formatting. Post-hoc tests were not performed. These tests are difficult to interpret and unless decisions and recommendations based on the statistical tests are accepted, unnecessary.

4.2 Comparison of Sites in a Reach

Fish monitoring in the Upper and Middle River reaches were divided into two sites at the request of the WDNR, in order to represent the amount of contaminated sediment removed and the variability expected. As can be seen in Table A5-1 (Appendix 5), there was no significant difference at the 95% level for fish species collected in the Upper River sites using the t-test. Table A5-2 confirmed this except for carp. As can be seen in Table A5-1, the calculated t-value for carp of 1.71 is very close to the critical value of 1.75 and as such, the ANOVA result is not surprising. The Mann-Whitney test confirmed the t-test (Table A5-3, Appendix 5) for carp indicating there was no significant difference between sites.

In the Middle River, both the t-test and the ANOVA indicated a significant difference for suckers and smallmouth bass. The statistical evaluation generally shows there is no difference in the PCB results for fish collected in the different sites of the Upper River reaches. For two out of the three fish species that were collected in sufficient numbers to perform the statistical comparison, there was a significant difference between sites with site 1 having much higher concentrations than site 2.

4.3 Comparison of Reaches

In addition to comparing the sites within the Upper and Middle River reaches, all reaches were compared. The t-test (Table A5-4) and ANOVA (Table A5-5) indicated the differences in fish PCB concentrations were significantly different between the Upper River and the Middle River reaches. Consistent with the sampling strategy of the Interim Monitoring Program which did not believe the Middle River and Lower River reaches were very different, the differences in PCB concentrations between the these two reaches were not significantly different. Consequently, the difference between the Upper River and Lower River would be significantly different between reaches. For the Lower River and Inner Harbor reaches, the t-test results indicate significant differences for smallmouth bass. The ANOVA and Whitney Mann tests did not indicate there were significant differences between the reaches for smallmouth bass. The Whitney-Mann test is documented in Table A5-6.

Two variables have been identified that would account for the differences between the Upper River and the Lower river reaches: the magnitude of sediment impact in each of these reaches and the Upper River reach was remediated while the others were not. However, the Inner Harbor has a high level of PCB sediment impact but the fish tissue concentrations are much lower than the Upper River reach (Table 4). Comparison of the fish tissue results in Section 4.4 will provide an evaluation of the differences observed between the Upper River and other reaches.

ProUCL generated boxplots comparing fish species across the reaches are provided in Appendix 5. The boxplots are consistent with Chart 1 showing a general reduction in PCB fish tissue concentration moving from upstream to downstream. The boxplots also identified outliers.

4.4 Comparison of Fish

The mean concentrations of each fish species was also compared to the mean concentrations of all fish, excluding the fish species under comparison. Based on the t-test (Table A5-7) the concentrations of white suckers, smallmouth bass, longnose dace, and walleye are not significantly different than the concentrations of all fish. However, the ANOVA (Table 5-8) test indicated there were differences for white suckers, smallmouth bass, and longnose dace. This could not be confirmed with the Mann-Whitney test (Table A5-9). The t-test and Mann-Whitney analyses indicate that the collection of either white suckers, smallmouth bass, or longnose dace alone could be used to evaluate the trend of fish concentrations following remediation. The data set for the walleye is not sufficiently large to be used however.

4.5 Comparison with Historical Data

Finally the data was compared to the historical data[11], where available (Tables A5-10 and A5-11). A non-statistical comparison of the means shows the mean concentrations were higher than the most recent historical result. The differences were most extreme in the Upper River sites, the only areas remediated. The smallmouth bass results and Upper River 2 white sucker were higher than the oldest of the Interim Monitoring results as can be seen in Charts 2 through 5 in Appendix 3.[12]

The t-test evaluation indicated that 5 of the 8 adult fish species evaluated had statistically different results in the Upper River sites. The ANOVA evaluation was similar though there was some disagreement as was there with the Mann-Whitney tests (Table A5-12). Based on the weight of evidence, it appears that the remediation of the Upper River caused an increase in the PCB concentrations in the fish. Prior to the fish collection, we anticipated that this may occur due to disturbance of the sediment causing increased suspension of sediment. The increase in biota concentrations following dredging was discussed in *Sediment Dredging at Superfund Megasites, Assessing the Effectiveness* (National Academy of Sciences, 2007). Cadmium levels in benthic invertebrates increased compared to pre-dredging levels for the first four years following dredging at the Marathon Battery site.[13] A decrease was not noted until the fifth year. At the Black River site in Ohio, an increase in cancer was noted following dredging that was "probably due to the exposure of fish and their prey to higher concentrations of PAHs in sediment and water during dredging."

While the turbidity was not measured during baseline monitoring, the results of the Lower Fox River baseline monitoring showed a strong correlation between PCB levels in the water column and the total suspended solids (TSS). This is consistent with the National Academy of Sciences findings that dredging exposes biota to more PCBs in the sediment and water column. Dredging increases TSS, which contains PCBs, and increased water column PCB levels, thus increasing exposure to the fish.

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[11] Historical results were provided by the USEPA and WDNR. These included the BBL Interim Monitoring Program data and WDNR fish advisory studies. The data was provided in the *Post Remedial Monitoring Plan.*

[12] The mean results were used.

[13] Fish were not monitored.

The water column had the highest PCB levels during the fall sampling period in the Lower Fox River study. This would not account for the historical differences in the fish tissue results in the Sheboygan River since the Interim Monitoring program fish collection occurred during the fall.

The repercussion of an increase in fish tissue concentrations following dredging indicates a need for further analysis. The affects of the lipid content of the fish should be evaluated during the comparison. Similar to the Waukegan Superfund site as discussed in *Sediment Dredging at Superfund Megasites, Assessing the Effectiveness,* the historical comparison was repeated after normalizing the PCB fish tissue results with the percent lipid concentration (Tables A5-13 and A5-14 in Appendix 5). This analysis demonstrated the pre and post-dredging fish tissue concentrations were not much different when using the lipid normalized data. Using non-normalized data, 58% of the adult species in the reaches evaluated had statistically significant differences between pre and post-dredging PCB concentrations based on the Mann-Whitney, confirmed t-test or ANOVA test. Using lipid normalized data, 60% had a significant difference. Clearly, there was another variable besides lipid content controlling the pre and post-dredge PCB concentrations in fish tissues. This variable is apparently remediation.

4.6 PCB Correlation and Controlling Variables

4.6.1 Linear Regression

During development of the PMP, WDNR had stated that percent lipids and length could be controlling variables for fish tissue PCB content excluding external variables such as TSS, river flow rates, river temperature, etc. The Lower Fox River baseline monitoring indicated there was contradictory information concerning TSS and temperature but that there is a strong correlation between TSS and water column PCB results. Therefore, there could be a correlation between fish tissue PCB content and water column PCB concentrations although we can not evaluate this as water column testing was not performed.

Simple (one-variable) linear regression was evaluated as a data analysis tool. Charts 6 and 7 in Appendix 3 provide the results for this evaluation. Most of the adult fish in the Upper River 1 site and random adult fish from other reaches were evaluated. The regression was not performed using log transformed data since the majority of the data had a normal distribution. Generally the evaluation showed there was a positive correlation between PCB concentrations and percent lipids, for the species evaluated. The highest correlation was for catfish and white suckers, bottom feeders. While these showed good correlation, the other species did not. The evaluation also showed a generally positive but poor correlation between PCB concentrations and length. However, three of the 8 evaluated had a negative correlation and one had basically no slope (Upper River 1 smallmouth bass). These results show one-variable linear regression provides little help analyzing the data and it will not be performed for the remainder of the fish and reaches.

4.6.2 Co-variant Analysis

WDNR had recommended during development of the Plan that co-variant analysis be used to assess both lipid content and length to better account for co-variance between these variables. In the fish tissue PCB post remedial monitoring program we will attempt to determine if PCB

concentrations change (on average) between sequential sampling events. In its simplest form we can think of describing the process as a model, where we attempt to "explain" fish tissue concentrations by the sampling event date. For example, if concentrations fall between sampling events 1 and 2, the sampling event date (as a factor in the model) has a decreasing effect on the fish tissue concentrations.

The variation found within a sampling event in this example is attributed to model error. If the within event model variation is large in comparison to the observed sampling event effect, we cannot conclude one way or the other that concentrations have changed. However, if we can further explain away the within event variation (thereby reducing the model error) it may still be possible to detect a concentration change. Adding covariates to the model attempts to do exactly that. By adding measurements of fish length and percent lipids as explanatory variables, we may reduce within event variation in the model so concentration changes over time are more easily detected.

This type of model is called a covariance model or analysis of covariance (ANCOVA). It is a mixture of regression analysis and analysis of variance (ANOVA) in that both qualitative and quantitative explanatory variables are utilized. The chief independent variables of interest are qualitative, with quantitative variables being introduced mainly to reduce the variance of the error terms.

This analysis will strengthen the statistical comparison of Phase 1 fish tissue results as compared to the baseline results. The analysis was performed by Foth and is documented in Appendix 7. A summary of the results is summarized in Table 5.

Foth concluded that lipids and/or length significantly affected fish tissue PCB concentrations in 17 of 27 data sets.[14] Lipids had 100% more affect on PCB concentration than length. In fact, length showed an inverse affect on PCB concentration in several data sets. Both lipids and length contributed to PCB concentrations in 5 of 17 data sets. Lipid content affected PCB concentrations mostly in the two bass species and length most affected the carp. Foth concluded that inclusion of these variables into the analysis would reduce variability in the PCB concentrations. This will allow for a more powerful comparison of the Phase 1 fish monitoring results with the baseline results.

4.6.3 Adequacy of Fish-Tissue Samples

The number of each fish species collected during baseline monitoring was determined by using a statistical procedure based on the coefficient of variation of the most recent historical data. If the baseline coefficient of variation is much higher than the historical variation, it could be possible that insufficient fish were collected for the baseline event to detect a 50% reduction in the fish tissue PCB concentrations. The results of the coefficient of variation comparison are summarized in Table 6. It includes the number of fish to be collected as determined in the Plan compared to the number that would be required based on the coefficient of variation from the baseline event. There is excellent agreement. In 8 of 32 (25%) of the comparisons, it indicates

[14] Each data set represented one fish species in one site or reach.

the numbers in the plan were not sufficient. Two of these were for rock bass where only 1 additional fish was required. Based on the data available at the time the Plan was developed, a 75% agreement is excellent.

5.0 Phase 1 Monitoring

The number of fish to collect for annual sampling is to be calculated by the same method as used for baseline sampling. With the exception of coefficient of variation, the input variables are the same. Please note, some fish were not collected in sufficient quantities to statistically determine the number of fish necessary for the first Phase 1 monitoring event. The same number of fish collected during the baseline event will be used for these fish.

When the number of fish to be collected as determined by the statistical method is less than 8, the number was increased to 8. That is, a minimum of 8 fish will be collected and analyzed. In addition, annual sampling will not collect more fish of a species than was obtained during baseline monitoring. Appendix 6 provides the calculations on the number of fish to collect during the first post remedial annual monitoring event while the following summarizes the results.

Fish Species	Number of Samples Per River Reach					
	Upper (Site 1)	Upper (Site 2)	Middle (Site 1)	Middle (Site 2)	Lower	Inner Harbor
Smallmouth Bass	8	8	8	8	8	8
Adult Carp	12	16	8	8	8	8
Juvenile Carp	16	16	8	8	8	8
Adult Suckers	8	8	8	8	8	8
Juvenile Suckers	8	8	8	8	8	8
Rock Bass	8	8	8	8	8	9
Longnose Dace	8	8	8	8	8	8
Walleye	8	8	8	8	9	8
Catfish	8	8	8	8	8	8

Only the Upper River reach has been remediated and as such, this reach will be the only portion of the river where post remedial monitoring will occur in 2009. Recommendations to revise the annual monitoring requirements, based on the statistical analysis, are made in Section 6.0. If these recommendations are not accepted, the number of each fish species discussed in this section will be collected in the Upper River reach in 2009 and during the first post remedial event in the other reaches.

6.0 Assessment and Recommendations

6.1 Sampling Frequency

Comparison of the Upper River results to the historical data shows that the remediation will cause an increase in the PCB concentrations in the fish. Since PCBs bioaccumulate, we should not expect to see a decrease in PCB concentrations in the adult species until they die out and are replaced with fish hatched since the remediation. This indicates that collection of adult fish immediately following remediation has little value and consideration should be given to revising our approach to annual monitoring. Expected fish life spans, based on *Fishes in Wisconsin* are as follows:

- Adult Carp 9 – 15 years
- Adult White Suckers 5 years
- Smallmouth Bass Not provided, 5 – 7 years[15]
- Rock Bass 6 – 8 years
- Longnose Dace Not provided, 3 – 4 years
- Walleye 6 – 7 years
- Channel Catfish 8 years

Similar to the earthworm monitoring in the floodplain where the earthworms are not collected following remediation until after the average life span of adult earthworm has passed, collection of adult fish in the years immediately following remediation should be postponed. A recommendation based on all of the assessments will be made at the end of this section.

6.2 Sample Locations

The data analysis indicated there was little variability between sites in the Upper River reach. However, the differences in remediation in the Upper River should be considered. A recommendation based on all of the assessments will be made at the end of this section.

6.3 Fish Species

The comparison of several adult fish species to all adult fish species indicated smallmouth bass, white suckers, longnose dace, and walleye could be used as indicator species when monitoring trends. White suckers, longnose dace, and walleye could not be collected in all reaches and as such, could not be used as indicators. However, smallmouth bass were successfully collected in all reaches and could be used as an indicator when monitoring trends. A recommendation based on all of the assessments will be made at the end of this section.

[15] Where not provided in *Fishes of Wisconsin*, lifespan were obtained from various internet sources.

6.4 Fish Sample Numbers

The fish sample numbers specified in the Plan is appropriate and provides statistical confidence and power for decision making. No changes to the number of fish collected in the Phase 1 sampling event or the method of calculating the number of fish is recommended.

6.5 Summary of Assessment Recommendations

Based on the data analysis performed, PRS believes that resources would be better utilized if the Phase 1 monitoring was revised. Based on the lack of variability between the two sampling sites established in the Upper River reach, there is no reason to collect fish from both sites. However, the dams do divide the Upper River causing each site to be physically different (depth, flow, etc.). In addition, different PCB mass exist between these sites and the amount and extent of remediation varied. As such, PRS does not propose that the site concept be dropped.

Comparison of the fish concentrations in the Upper River to historical results demonstrate that remediation will cause an increase in PCB concentrations in adult fish tissue. Since PCBs bioaccumulate, there is no reason remediation will affect adult fish that were adults when remediation was performed. As such, PRS recommends that adult fish species not be collected following remediation until such time the adults have died. According to the available data, the average life span is 6.8 years and increases to 7.3 when dace are not considered. However, we propose to begin Phase 1 monitoring of the adult fish five years following remediation, coinciding with sediment sampling. To fulfill the requirements of the ROD which requires annual monitoring but does not specify which fish require monitoring, PRS recommends that adult smallmouth bass be collected annually during the first four years following remediation. Juvenile species of carp and white suckers would also continue to be collected annually following remediation.

PRS also proposes to collect all adult fish every 5 years when the sediment sampling is performed. In the years between sediment sampling, only smallmouth bass would be collected as their concentration is representative of all fish and are easily found through out the river. This would occur until such time that it appears that the adult species, as represented by annual smallmouth bass results or 5-year adult fish species results, indicates the PCB concentrations are reaching target levels. At that time, all adult fish species will be collected if the decision is being made on annual smallmouth data, to verify that Phase 2 confirmation monitoring can begin. If the 5-year data indicates Phase 2 monitoring can begin, no additional Phase 1 monitoring will be needed since the decision would be made based on all fish species.

In summary, PRS proposes the following as the post remedial fish monitoring:

- Collect adult smallmouth bass, juvenile carp, and juvenile white suckers annually following remediation for the first five years following remediation,

- Collect all adult and juvenile fish species listed in the this Plan during the first 5-year sediment sampling event, and
- Collect adult smallmouth bass, juvenile carp, and juvenile white suckers annually following the first 5-year sediment sampling event and all adult and juvenile fish species listed in this plan during subsequent 5-year sediment sampling events until Phase 1 monitoring is completed, and

Based on this recommendation, PRS proposes to sample the following during the Phase 1 annual fish monitoring event, when applicable.

Fish Species	Number of Samples Per River Reach					
	Upper (Site 1)	Upper (Site 2)	Middle (Site 1)	Middle (Site 2)	Lower	Inner Harbor
Smallmouth Bass	8	8	8	8	8	8
Juvenile Carp	16	16	8	8	8	8
Juvenile Suckers	8	8	8	8	8	8

Phase 1 monitoring based on juvenile fish and adult small mouth bass will require that additional efforts be made to collect juvenile carp to establish baseline conditions. To ensure collection of juvenile carp, the collection of these fish should be performed earlier in the summer when there is a greater chance of encountering this species in the required size range. This baseline monitoring would be performed prior to remediation of the Lower River reaches and in 2009 for the Upper River reach.

7.0 References

Anderson, R.L. *Practical Statistics for Analytical Chemists.* Van Nostrand Rheinhold Company, Inc. 1987.

Gilbert, R.O. *Statistical Methods for Environmental Pollution Monitoring.* Van Nostrand Rheinhold Company, Inc. 1987.

Wisconsin Department of Natural Resources. *Division of Environmental Standards Field Procedures Manual.* Sept. 1988.

United States Environmental Protection Agency. *Statement of Work for Organic Analysis.* Feb. 1988.

Blasland, Bouck & Lee, Inc. *Work Plan/QAPP Interim Monitoring Program.* Sept. 1996.

United States Environmental Protection Agency. Lake and reservoir Bioassessment and Biocriteria, Technical Guidance Document, August 1998, www.epa.gov/owow/monitoring/tech/lakes.html

United States Environmental Protection Agency. *EPA Superfund Record of Decision.* May 2000.

United States Environmental Protection Agency. *Statement of Work for Remedial Design Action for the Upper River Sediment, Floodplain Soil and Tecumseh Products Company Plant Site at the Sheboygan River and Harbor Superfund Site.* January 2003 (revised).

Shaw Environmental, Inc. and Anchor Environmental, LLC. *Lower Fox River Baseline Monitoring Plan.* June 2006.

National Academy of Science. *Sediment Dredging at Superfund Megasites: Assessing the Effectiveness.* 2007.

Pollution Risk Services, LLC. *Quality Assurance Project Plan (QAPP).* September 2008

Pollution Risk Services, LLC. *Sheboygan River Superfund Site Upper and Lower River Post Remediation Monitoring Plan.* September 2008

PACE Analytical, Ted Noltemeyer, Project Manager communication with Keith Egan of PRS via e-mail, May 12, 2009.

Tables

Table 1
Summary of Targeted Fish Species

Fish Species	Characteristics	Habitat Targeted for Collection *	
		Upper – Lower River	Inner Harbor
Smallmouth bass	Occurs in all three drainage basins in Wisconsin. A non-migratory fish, they retreat to pools, undercut banks, or fairly deep water to avoid sunlight. Spawn in May through June when the water reaches 55-75°F. The average length of young-of year in Wisconsin is 2.7 inches by the end of September. The fish begin to reach sexual maturity at the ages of 3-4 depending on sex. The usual longevity is 5-7 years.	Area of little soft sediment. Sandy or gravel bottom best. Area of stumps or downed trees.	Near structures offering protection. Bridge abutments, docks, etc.
Carp	Occurs in all drainage basins in Wisconsin. It is found in a wide variety of habitats but prefer warm turbid water. Spawn in April to August when the water reaches 65-75°F. The average length of young-of year in Wisconsin is 3.7 inches by the end of September. In Wisconsin, carp mature between the ages of 2 and 3 depending on the sex. The usual longevity is 9-15 years. They can have a fairly extensive range and can jump small dams.	Areas with vegetation	
White suckers	Occurs in all drainage basins in Wisconsin and is probably the most widespread of all fish in Wisconsin. It is found in warm shallows of estuaries and bays and can tolerate all stream gradients and a wide range of environmental conditions and pollution. Spawn in April to May when the water reaches about 45°F. The typical length of young-of year in Wisconsin is 2.6 inches by the end of September. The usual longevity is 5 years after maturing between the ages of 2 and 3. They move about extensively.	Areas with vegetation	
Rock Bass	Occurs in all three drainage basins in Wisconsin. It is found in clear water over a gravel or rocky bottom and is often found near breakwaters and stone-armored shorelines. Often found with other sunfish such as smallmouth bass. Spawn in spring when the water reaches 60-70°F. The average length of young-of year in Wisconsin is 1.7 inches by the end of September. They reach maturity between ages 2 and 3. The usual longevity is 6-8 years. They have a limited range.	Prefers clear, rocky, and vegetated stream pools.	
Longnose Dace	Occurs in all drainage basins in Wisconsin. Occurs in riffles or torrential water over a bottom of boulder and gravel; it generally avoids pools and quiet runs. Spawn in late April to mid-June at an average water temperature of 63°F. The average length of young-of year in Wisconsin is 1.7 inches by the end of September. The usual longevity is 3-4 years after reaching maturity at age 2. No information on their range of migration was found.	Area of little soft sediment. Sandy, gravel or cobble bottom that have some vegetation for cover are best.	
Walleye	Present throughout Wisconsin. During the day, hovers in shadows of submerged objects or in shadows of deep water. At dusk, emerge to feed over shallow weed beds or rocky shoals. Spawn in mid-April to mid-May when water reaches 42-50°F. The average length of young-of year in Wisconsin is 3 inches by the end of July. Maturity occurs between the ages of 2 to 5 for males and 5 to 7 for females. The usual longevity is 6-7 years. They have a fairly extensive range and can jump small dams.	Area of little soft sediment. Sandy or gravel bottom best. Area of rough water.	
Catfish	Occurs in all three drainage basins in Wisconsin. It is found in a wide variety of habitats but prefer warm water. Spawn in May or June when the water reaches 75°F. The average length of young-of year catfish in Wisconsin is 3.4 inches by the end of September. Sexual maturity varies by body of water but it appears both sexes begin maturing by the age of 5. Few catfish live beyond 8 years. They can have a fairly extensive range.	Prefers some current and deep water with sand, gravel or rubble bottoms. Areas near bank overhangs or downed trees or stumps	

* - General tips on fish locations: outside bends of river, downstream of rocks, area where fast water meets slower water, area of merging currents (streams, brooks, rivers et.) current edges, areas with overhanging trees or branches, drop offs, undercuts, below dams or falls, above springs, riparian zones

Table 2
Baseline Daily Fish Collection Summary

Date	River Reach	Adult Carp	Adult White Suckers	Juvenile White Suckers	Small Mouth Bass	Rock Bass	Longnose Dace	Walleye	Channel Catfish
8/18/2008	UR1	3	2		2				
8/19/2008	UR1	1	2	4	6	1			
8/20/2008	UR1			4		7			
8/21/2008	UR2	4	4	8	8	3			
8/22/2008	UR2					4			
8/25/2008	LR	2	2	1	8				4
8/26/2008	LR			3		9			
8/27/2008	IH	8			7			1	
9/2/2008	IH				1				1
9/3/2008	LR	6		1					
9/5/2008	IH							2	
9/6/2008	UR1	12	4						
9/6/2008	UR2	12	4			1			
9/8/2008	MR2		8	2	8	2			1
9/10/2008	MR2						8		
9/10/2008	MR1						4		
9/11/2008	MR1						2		
9/12/2008	UR1						4		
9/15/2008	MR2	1		5		6			3
9/16/2008	MR1	8	3		8			8	
9/17/2008	MR1		4			1			4
9/17/2008	UR1						2		
TOTAL		57	33	28	48	34	20	11	13

UR1 – Upper River from former Tecumseh Site to Riverbend Dam
UR2 – Upper River from Riverbend Dam to Waelderhaus Dam
MR1 – Middle River from Waelderhaus Dam to Kohler Landfill (County Road A Bridge)
MR2 – Middle River from Kohler Landfill (County Road A Bridge) to C&NW Railroad Bridge
LR – Lower River from C&NW Railroad Bridge to Pennsylvania Avenue Bridge
IH – Inner Harbor from Pennsylvania Avenue Bridge to Coast Guard Station

Table 3
Baseline Fish Collection Summary

Species	UR1 Target	UR1 Collected	UR2 Target	UR2 Collected	MR1 Target	MR1 Collected	MR2 Target	MR2 Collected	LR Target	LR Collected	IH Target	IH Collected
Adult Carp	16	16	16	16	8	8	8	1	8	8	8	8
Juvenile Carp	16	0	16	0	8	0	8	0	8	0	8	0
Adult White Sucker	8	8	8	8	8	7	8	8	8	2	8	0
Juvenile White Sucker	8	8	8	8	8	0	8	7	8	5	8	0
Smallmouth Bass	8	8	8	8	8	8	8	8	8	8	8	8
Rock Bass	8	8	8	8	8	1	8	8	9	9	9	0
Longnose Dace	8	6	8	0	8	6	8	8	8	0	8	0
Walleye	8	0	8	0	8	8	8	0	9	0	9	3
Channel Catfish	8	0	8	0	8	4	8	4	8	4	8	1
Total	88	54	88	48	72	42	72	44	74	36	74	20

UR1 – Upper River from former Tecumseh Site to Riverbend Dam
UR2 – Upper River from Riverbend Dam to Waelderhaus Dam
MR1 – Middle River from Waelderhaus Dam to Kohler Landfill (County Road A Bridge)
MR2 – Middle River from Kohler Landfill (County Road A Bridge) to C&NW Railroad Bridge
LR – Lower River from C&NW Railroad Bridge to Pennsylvania Avenue Bridge
IH – Inner Harbor from Pennsylvania Avenue Bridge to Coast Guard Station

Table 4
Summary Statistics

Statistic[16]	UR1	UR2	MR 1	MR 2	LR	IH
Adult Carp						
Mean	25.9	14.7	4.44	N/A	11.3	3.16
Minimum	1.63	1.02	1.28	1.27	0.458	0.243
Maximum	73.1	47.7	22.8	1.27	44.9	9.14
Count	16	16	9	1	9	9
Standard Deviation	21.4	15.0	7.43	N/A	15.2	2.81
Coefficient of Variation	0.83	1.02	1.67	N/A	1.35	0.89
Distribution	Normal	Gamma	Non-Par	N/A	Lognormal	Normal
95% UCL	35.3	24.9	15.89	N/A	32.63	5.05
Adult White Sucker						
Mean	12.4	8.92	8.77	3.96	4.31	N/A
Minimum	5.74	3.95	3.24	0.925	3.65	N/A
Maximum	20.6	16.6	19.9	6.98	4.96	N/A
Count	8	8	8	8	2	0
Standard Deviation	5.00	4.19	5.86	2.01	0.926	N/A
Coefficient of Variation	0.40	0.47	0.669	0.51	0.22	N/A
Distribution	Normal	Normal	Normal	Normal	N/A	N/A
95% UCL	15.8	11.7	13.07	5.31	N/A	N/A
Juvenile White Sucker						
Mean	6.01	6.82	N/A	1.37	1.04	N/A
Minimum	1.99	3.73	N/A	0.980	0.587	N/A
Maximum	9.71	11.5	N/A	2.03	1.64	N/A
Count	8	8	0	7	5	0
Standard Deviation	2.85	2.96	N/A	0.389	0.427	N/A
Coefficient of Variation	0.47	0.43	N/A	0.28	0.41	N/A
Distribution	Normal	Normal	Normal	Normal	Normal	N/A
95% UCL	7.9	8.8	N/A	1.66	1.44	N/A
Small Mouth Bass						
Mean	13.0	14.5	8.75	4.30	5.77	3.36
Minimum	4.09	3.12	4.20	2.64	1.78	1.44
Maximum	22.2	33.5	18.2	7.65	10.90	4.43
Count	8	8	8	8	8	8
Standard Deviation	7.28	11.1	4.94	1.61	3.05	1.04
Coefficient of Variation	0.56	0.77	0.56	0.37	0.53	0.31
	Normal	Normal	Normal	Normal	Normal	Normal
95% UCL	17.8	22.0	12.1	5.38	7.8	4.06
Rock Bass						
Mean	6.94	4.27	N/A	2.49	2.60	N/A
Minimum	1.22	0.739	2.79	1.42	1.40	N/A
Maximum	16.8	8.72	2.79	3.70	4.27	N/A
Count	8	8	1	8	9	0
Standard Deviation	5.01	2.94	N/A	0.790	1.11	N/A
Coefficient of Variation	0.72	0.69	N/A	0.32	0.43	N/A
Distribution	Normal	Normal	N/A	Normal	Normal	N/A
95% UCL	10.3	6.2	N/A	3.02	3.29	N/A

[16] Units and other information provided on last page of table.

Table 4
Summary Statistics

Statistic[16]	UR1	UR2	MR 1	MR 2	LR	IH
Longnose Dace						
Mean	7.67	N/A	9.47	8.51	N/A	N/A
Minimum	1.72	N/A	7.08	4.86	N/A	N/A
Maximum	17.6	N/A	17.8	11.0	N/A	N/A
Count	6	0	7	8	0	0
Standard Deviation	6.85	N/A	4.15	2.25	N/A	N/A
Coefficient of Variation	0.89	N/A	0.44	0.26	N/A	N/A
Distribution	Normal	N/A	Non-Par	Normal	N/A	N/A
95% UCL	13.3	N/A	12.88	10.0	N/A	N/A
Channel Catfish						
Mean	N/A	N/A	27.9	8.18	13.7	N/A
Minimum	N/A	N/A	15.9	0.532	6.37	19.4
Maximum	N/A	N/A	49.2	16.6	28.4	19.4
Count	0	0	4	4	5	1
Standard Deviation	N/A	N/A	15.6	6.62	10	N/A
Coefficient of Variation	N/A	N/A	0.56	0.81	0.73	N/A
Distribution	N/A	N/A	N/A	N/A	N/A	N/A
95% UCL	N/A	N/A	43.2	14.7	25.1	N/A
Walleye						
Mean	N/A	N/A	11.1	N/A	N/A	2.03
Minimum	N/A	N/A	5.58	N/A	N/A	1.36
Maximum	N/A	N/A	16.8	N/A	N/A	3.00
Count	0	0	8	0	0	3
Standard Deviation	N/A	N/A	4.63	N/A	N/A	0.857
Coefficient of Variation	N/A	N/A	0.42	N/A	N/A	0.42
Distribution	N/A	N/A	Normal	N/A	N/A	N/A
95% UCL	N/A	N/A	14.2	N/A	N/A	3.00

Mean, Minimum, Maximum, Standard Deviation and 95% UCL in mg/Kg.
Count is number of samples.
Non-Par – Non Parametric Distribution
N/A – Not Applicable, insufficient data

Table 5
Co-variable Analysis Results

Reach	Statistic	Adult Carp		Adult Suckers		Juvenile Suckers		Smallmouth Bass		Rock Bass		Longnose Dace		Walleye		Catfish	
		Length	Lipids	Length	Lipids	Length	Lipids	Length	Lipids	Length	Lipids	Length	Lipids	Length	Lipids	Length	Lipids
Upper River 1	N	16		8		8		8		8		6		0		0	
	R^2	0.39		0.91		0.02		0.20		0.53		0.85		-		-	
	Coefficient	0.195	4.59	-0.485	1083.66	-0.036	57.48	3.137	-1911.86	-0.876	1344.79	1.503	8.67	-	-	-	-
	Standard Error	0.093	8.24	0.458	150.04	0.490	184.79	3.008	1690.26	1.548	870.67	0.507	19.21	-	-	-	-
	p (2-tail)	0.056	0.587	0.338	0.001	0.944	0.768	0.345	0.309	0.596	0.183	0.059	0.682	-	-	-	-
	Model	Exponential		Linear		Exponential		Linear		Linear		Exponential		-		-	
Upper River 2	N	16		8		8		8		8		0		0		0	
	R^2	0.88		0.69		0.09		0.59		0.95		-		-		-	
	Coefficient	1.925	341.85	-0.224	191.41	-0.072	-136.27	1.033	2442.65	-1.153	645.16	-	-	-	-	-	-
	Standard Error	0.517	55.57	0.096	57.33	0.180	291.98	2.564	910.63	0.514	146.26	-	-	-	-	-	-
	p (2-tail)	0.003	0.000	0.067	0.021	0.707	0.660	0.704	0.044	0.075	0.007	-	-	-	-	-	-
	Model	Linear		Exponential		Exponential		Linear		Linear		-		-		-	
Middle River 1	N	8		7		0		8		1		6		8		4	
	R^2	0.88		0.37		-		0.05		-		0.77		0.96		0.96	
	Coefficient	0.445	20.95	0.159	33.50	-	-	0.655	50.73	-	-	2.716	140.90	0.017	635.96	-1.850	436.13
	Standard Error	0.123	18.07	0.131	96.16	-	-	1.731	481.56	-	-	1.428	89.31	0.399	165.11	3.011	102.35
	p (2-tail)	0.015	0.299	0.294	0.745	-	-	0.721	0.920	-	-	0.153	0.213	0.967	0.012	0.649	0.147
	Model	Exponential		Exponential		-		Linear		-		Linear		Linear		Linear	
Middle River 2	N	1		8		7		8		8		8		0		4	
	R^2	-		0.53		0.25		0.37		0.62		0.91		-		0.97	
	Coefficient	-	-	0.615	265.92	-0.054	89.09	0.072	57.54	-0.299	102.52	0.238	12.56	-	-	3.040	-298.64
	Standard Error	-	-	0.680	134.30	0.155	79.19	0.056	37.53	0.297	48.80	0.068	3.23	-	-	0.491	100.24
	p (2-tail)	-	-	0.407	0.105	0.746	0.324	0.255	0.186	0.360	0.090	0.017	0.012	-	-	0.102	0.206
	Model	-		Linear		Exponential		Exponential		Linear		Exponential		-		Linear	
Lower River	N	8		2		5		8		9		0		0		4	
	R^2	0.64		-		0.93		0.76		0.67		-		-		0.86	
	Coefficient	-0.639	425.64	-	-	0.414	-145.70	-0.710	506.71	0.022	311.03	-	-	-	-	-0.508	499.45
	Standard Error	1.341	144.76	-	-	0.083	75.92	0.635	125.95	0.392	89.06	-	-	-	-	4.001	400.02
	p (2-tail)	0.654	0.032	-	-	0.038	0.195	0.315	0.010	0.957	0.013	-	-	-	-	0.920	0.430
	Model	Linear		-		Linear		Linear		Linear		-		-		Linear	
Inner Harbor	N	8		0		0		8		0		0		3		1	
	R^2	0.64		-		-		0.90		-		-		-		-	
	Coefficient	0.165	67.67	-	-	-	-	-0.533	196.02	-	-	-	-	-	-	-	-
	Standard Error	0.133	23.19	-	-	-	-	0.081	43.76	-	-	-	-	-	-	-	-
	p (2-tail)	0.269	0.033	-	-	-	-	0.001	0.007	-	-	-	-	-	-	-	-
	Model	Exponential		-		-		Linear		-		-		-		-	

Numbers in the table represent the statistic.

p<0.05 Significance level is below 0.05

0.05<p<0.1 Significance level is greater than 0.05 and less than 0.1

Note: p-Level indicates the probability of the coefficient being equal to zero. Lower values of p indicate higher probabilities that the factors of length or percent lipids significantly affect fish tissue PCB concentrations.

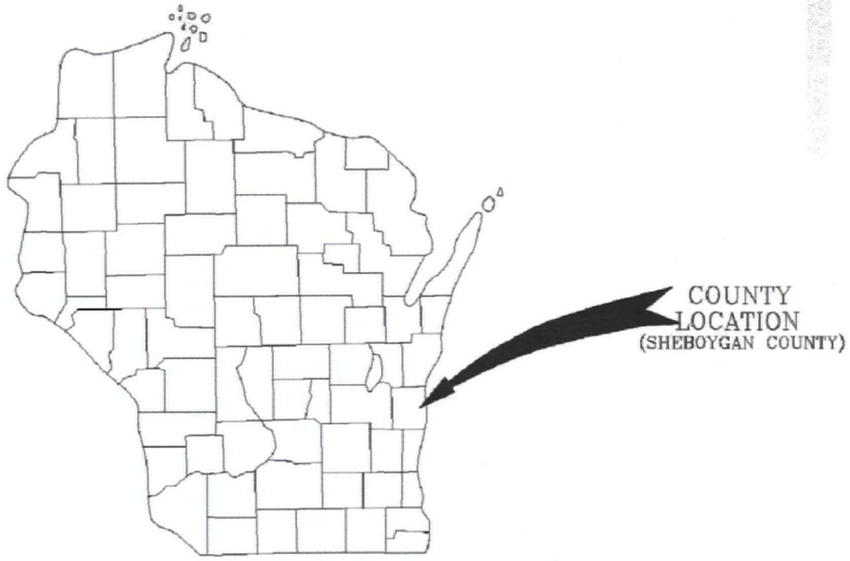
Table 6
Analysis of Number of Fish Sampling Requirements

Location and Species	Coefficient of Variation		Number of Fish Needed	
Upper River 1	**Historical**	**Baseline**	**Historical C/V**	**Baseline C/V**
Smallmouth Bass	0.36	0.56	8	8
Adult Carp	0.93	0.83	16	12
Adult Suckers	0.36	0.40	8	8
Juvenile Suckers	0.36	0.47	8	8
Rock Bass	0.58	0.72	8	9
Longnose Dace	0.08	0.89	8	14
Upper River 2				
Smallmouth Bass	0.36	0.77	8	11
Adult Carp	0.93	1.02	16	19
Adult Suckers	0.66	0.47	8	8
Juvenile Suckers	0.66	0.43	8	8
Rock Bass	0.58	0.69	8	9
Middle River 1				
Smallmouth Bass	0.36	0.56	8	8
Adult Carp	0.66	1.67	8	50
Adult Suckers	0.66	0.67	8	8
Juvenile Suckers	0.66	0.47	8	8
Longnose Dace	0.08	0.559	8	8
Walleye	0.48	0.42	8	8
Catfish	0.08	0.56	8	8
Middle River 2				
Smallmouth Bass	0.36	0.37	8	8
Adult Suckers	0.66	0.51	8	8
Juvenile Suckers	0.66	0.28	8	8
Rock Bass	0.25	0.32	8	8
Lower River				
Smallmouth Bass	0.69	0.53	8	8
Adult Carp	0.44	1.35	8	33
Adult Suckers	0.44	0.22	8	8
Juvenile Suckers	0.44	0.41	8	8
Rock Bass	0.58	0.43	9	8
Catfish	0.07	0.73	8	10
Inner Harbor				
Smallmouth Bass	0.69	0.31	8	8
Adult Carp	0.44	0.89	8	14
Walleye	0.69	0.42	9	8
Catfish	0.07	0.3	8	8

C/V - Coefficient of variation
Comparison made only for fish where sufficient were caught to determine C/V.

Figures

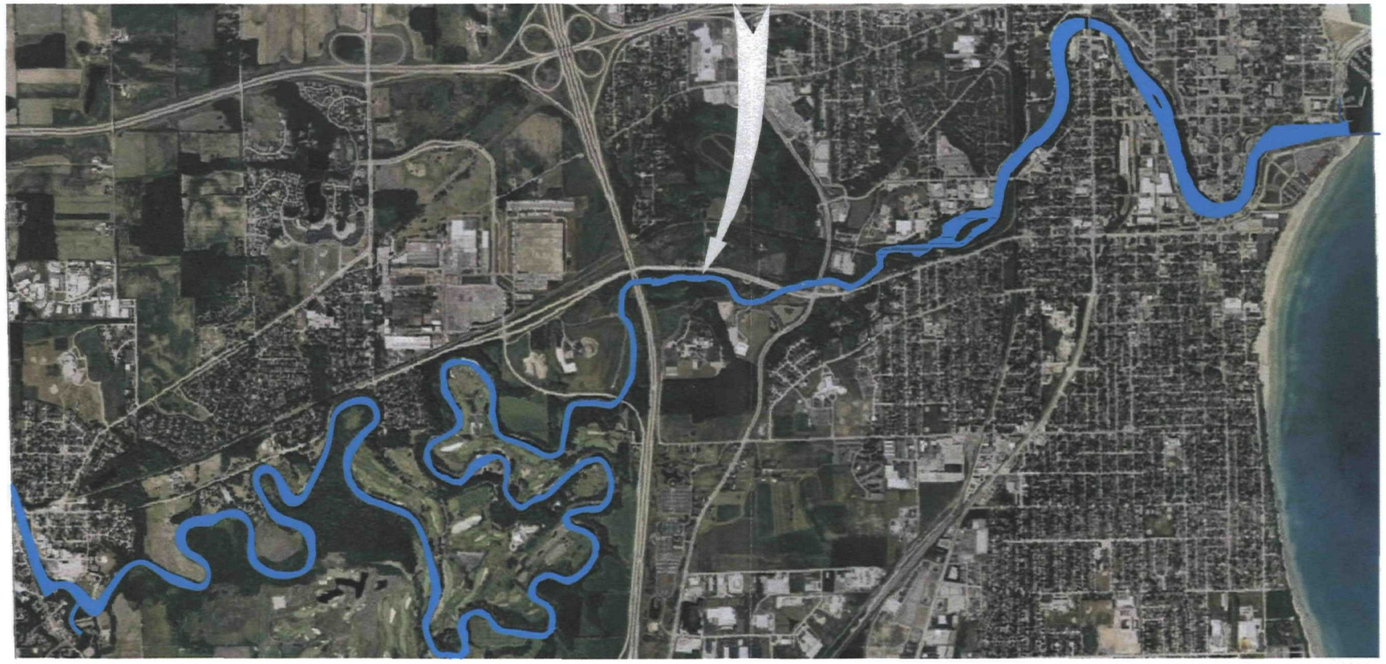
Figures



COUNTY LOCATION MAP

NOT TO SCALE

SHEBOYGAN RIVER



N

0' 4000' 8000'

REVISIONS			SIGNATURES		
NO.	BY	DATE		BY	DATE
△			APPROVED		
△			REVIEWED		
△			DESIGNED		

FILE NAME:
DRAWN BY: KDA DATE: JANUARY 2009

Pollution Risk Services
7870 East Kemper Road, Suite 240
Cincinnati, Ohio 45249
Phone: 513-489-2793
Fax 513-489-2794

SHEBOYGAN RIVER AND HARBOR SUPERFUND SITE
BASELINE UPPER & LOWER RIVER FISH MONITORING REPORT
SHEBOYGAN FALLS, WISCONSIN

SHEBOYGAN RIVER LOCATION MAP

Scale: SHOWN

FIGURE NO. 1

REVISIONS				SIGNATURES			
NO.	BY	DATE		BY	DATE		
1				APPROVED			
2				REVIEWED			
3				DESIGNED			

FILE NAME:
DRAWN BY: KDA DATE: JANUARY 2009

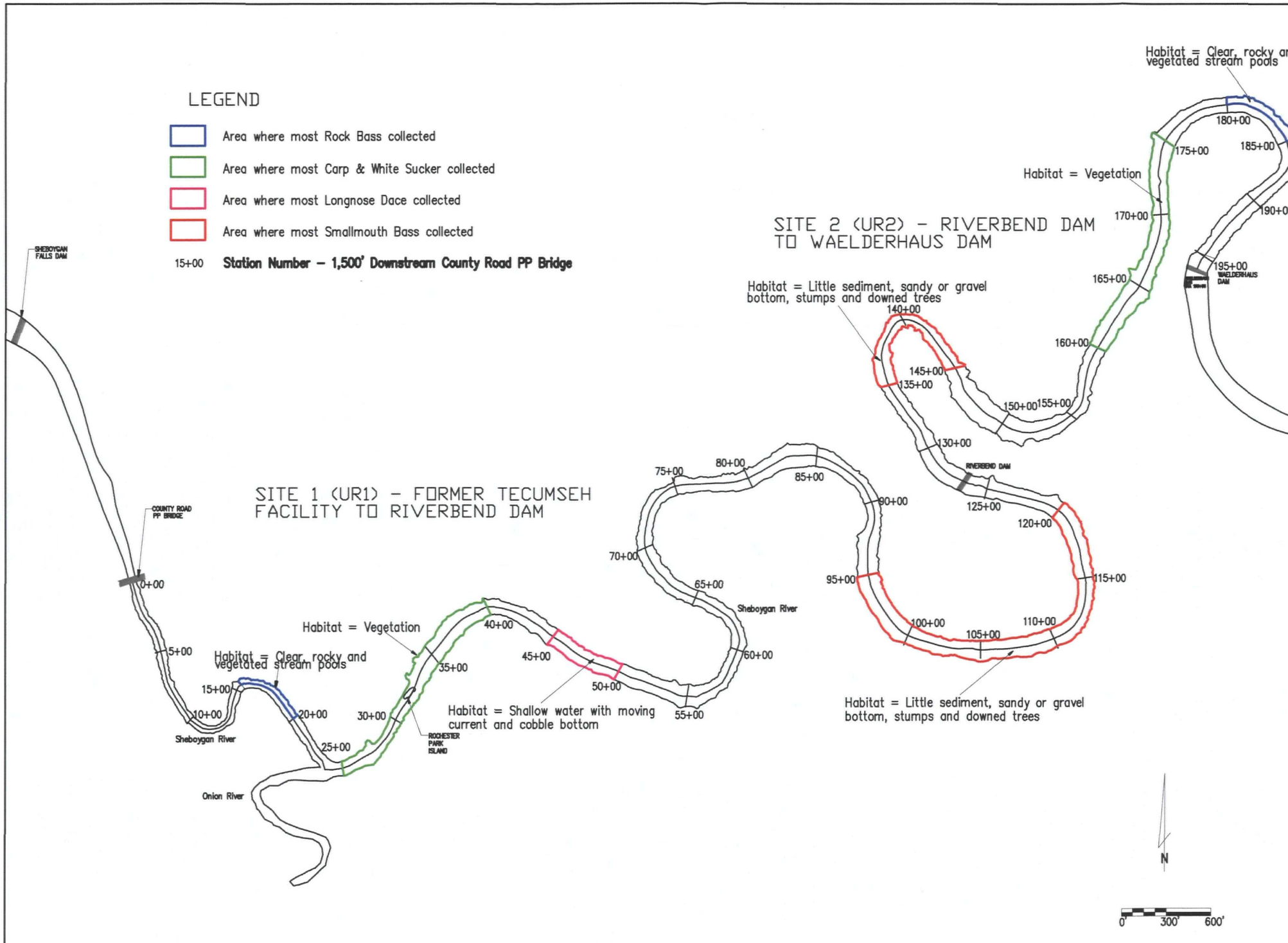
PRS Pollution Risk Services
7870 East Kemper Road, Suite 240
Cincinnati, Ohio 45249
Phone 513-489-2793
Fax 513-489-2794

SHEBOYGAN RIVER AND HARBOR SUPERFUND SITE
BASELINE UPPER AND LOWER RIVER FISH MONITORING REPORT
SHEBOYGAN FALLS, WISCONSIN

RIVER REACHES

Scale: SHOWN

FIGURE NO. 2



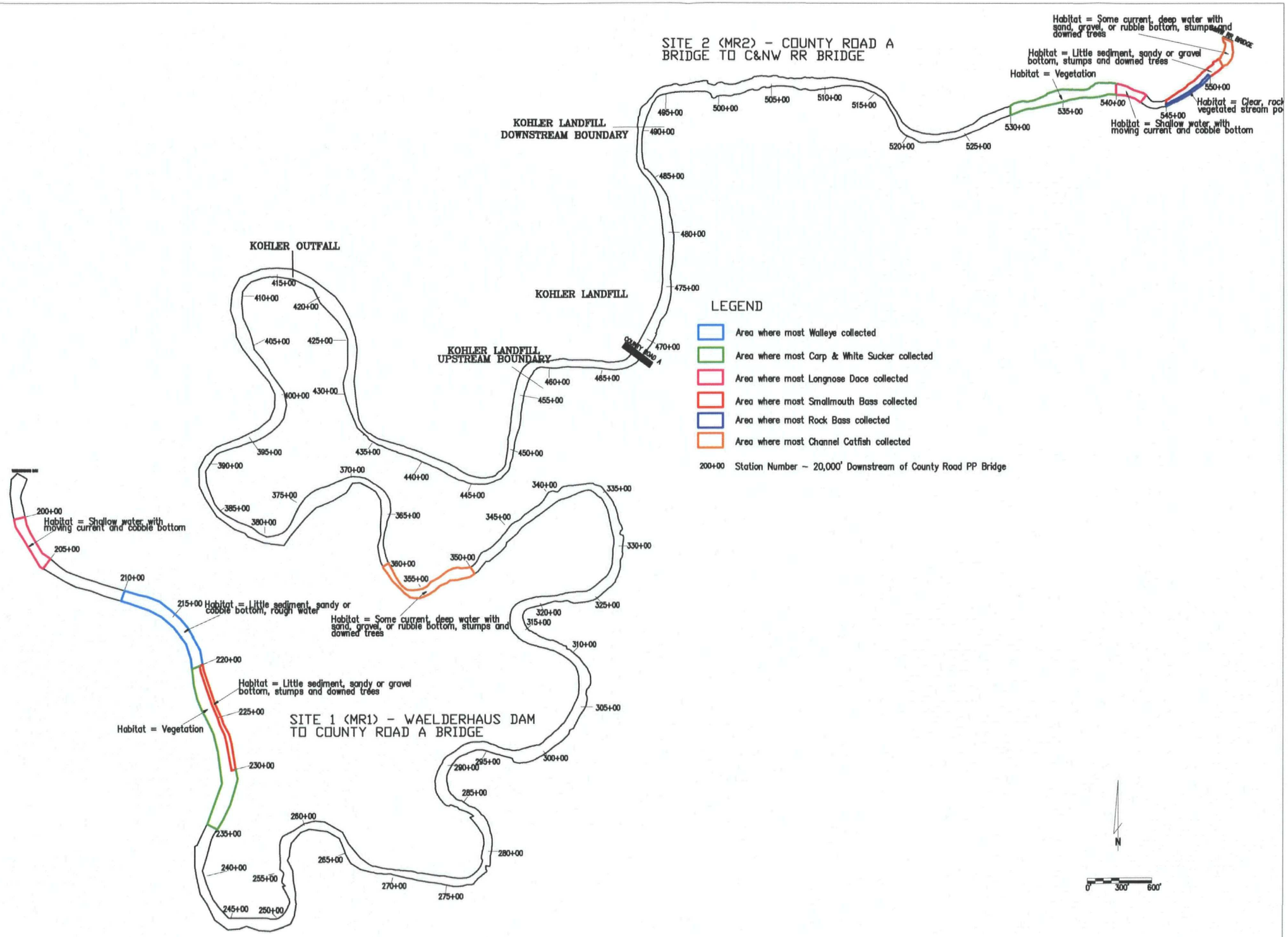
SHEBOYGAN RIVER AND HARBOR SUPERFUND SITE
BASELINE UPPER AND LOWER RIVER FISH MONITORING REPORT
SHEBOYGAN FALLS, WISCONSIN

UPPER RIVER FISH COLLECTION AREAS

PRS Pollution Risk Services
7870 E Kemper Road, Suite 240
Cincinnati, Ohio 45249
Phone: 513-489-2793
Fax: 513-489-2794

SCALE: SHOWN

FIGURE NO. 3



FILE NAME:
DRAWN BY: KDA DATE: JANUARY 2009

REVISIONS				SIGNATURES		
NO.	BY	DATE		BY	DATE	
1				APPROVED		
2				REVIEWED		
3				DESIGNED		

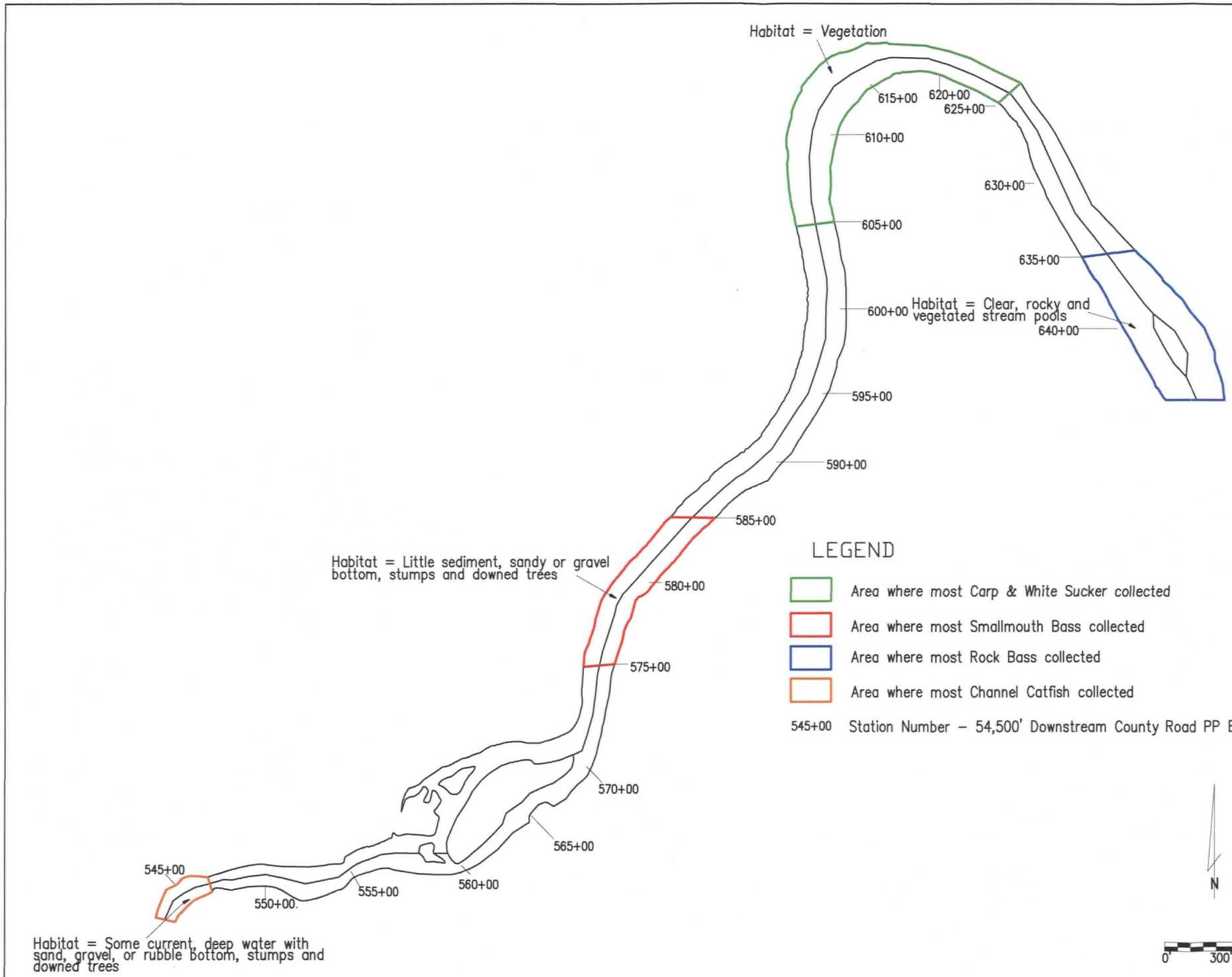
Pollution Risk Services
7870 East Kemper Road, Suite 240
Cincinnati, Ohio 45249
Phone: 513-489-2793
Fax: 513-489-2794

SHEBOYGAN RIVER AND HARBOR SUPERFUND SITE
BASELINE UPPER AND LOWER RIVER FISH MONITORING REPORT
SHEBOYGAN FALLS, WISCONSIN

MIDDLE RIVER FISH COLLECTION AREAS

Scale: SHOWN

FIGURE NO. 4



FILE NAME:
DRAWN BY: KDA DATE: JANUARY 2009

NO.	REVISIONS BY	DATE	SIGNATURES BY	DATE
△			APPROVED	
△			REVIEWED	
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SHEBOYGAN RIVER AND HARBOR SUPERFUND SITE
BASELINE UPPER AND LOWER RIVER FISH MONITORING REPORT
SHEBOYGAN FALLS, WISCONSIN

LOWER RIVER FISH COLLECTION AREAS

Scale: SHOWN

FIGURE NO. 5

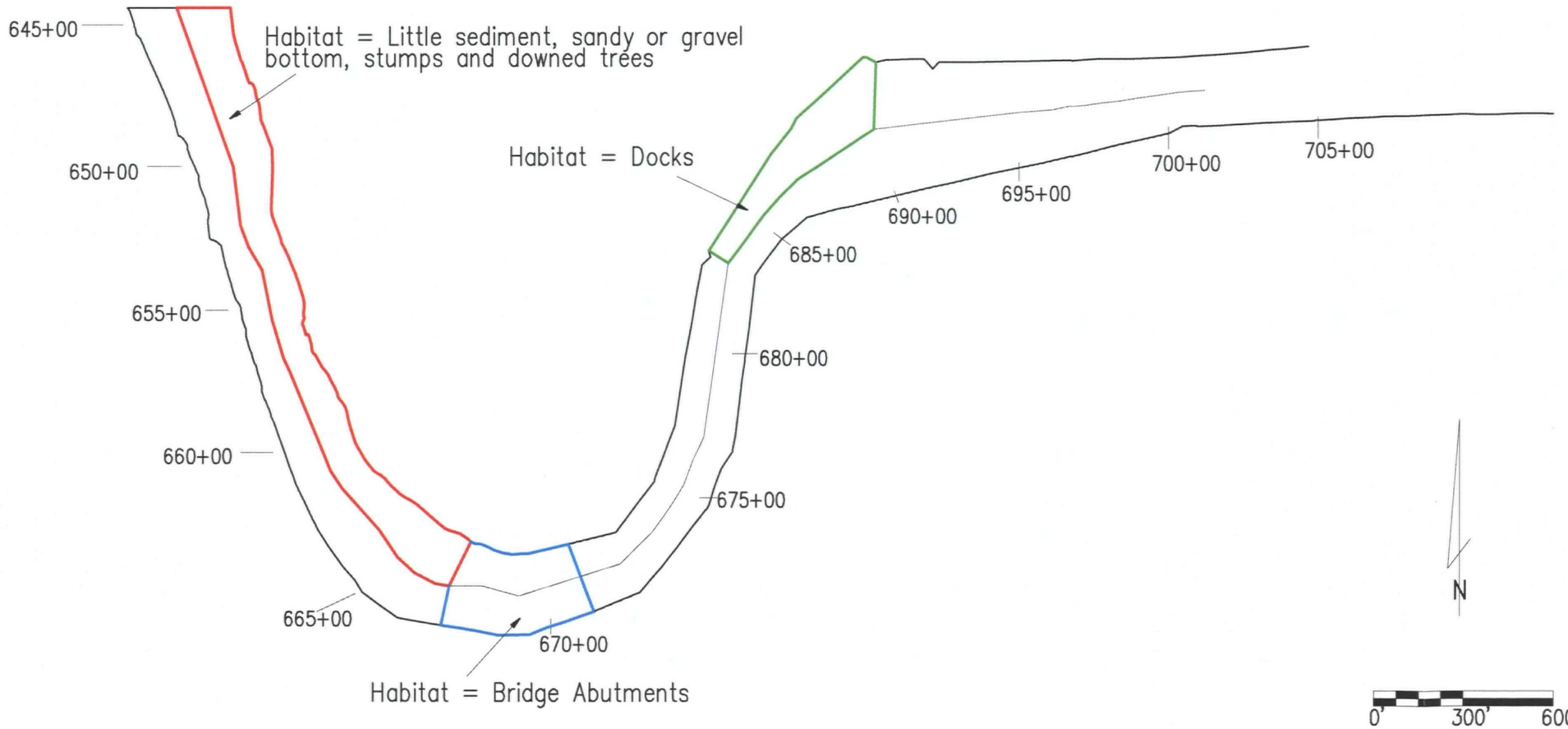
LEGEND

Area where most Carp & White Sucker collected

Area where most Smallmouth Bass collected

Area where most Walleye collected

645+00 Station Number – 64,500' Downstream County Road PP Bridge



FILE NAME:		DATE:	JANUARY 2000
DRAWN BY:	KDA		

SIGNATURES		DATE
	BY	
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REVIEWED		
DESIGNED		

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SHEBOYGAN RIVER AND HARBOR SUPERFUND SITE
BASELINE UPPER AND LOWER RIVER FISH MONITORING REPORT
SHEBOYGAN FALLS, WISCONSIN

INNER HARBOR FISH COLLECTION AREAS

Scale: SHOWN

FIGURE NO. 6

Appendix 1

Appendix 1

Summary of Baseline Fish Tissue Results

UPPER RIVER 1

FISH SAMPLE RESULTS - UPPER RIVER SITE 1 (UR1)

Sample ID, Collection Date	*Sample Type*	*Sample Form*	*Length (in)*	*Length (cm)*	*Weight (ounces)*	*Weight (grams)*	*Gender (M/F)*	*Age (Yr)* [1]	*Fat (%)*	*PCB (mg/kg)*
BL-UR1-AC1-G, 8/19/08	Adult Carp	SO	24.0	61.0	82.0	2325	F	7/8	4.60%	37.0
BL-UR1-AC2-G, 8/18/08			21.0	53.3	61.0	1729	M	6	1.33%	73.1
BL-UR1-AC3-G, 8/18/08			18.0	45.7	32.0	907	M	4	4.84%	1.63
BL-UR1-AC4-G, 8/18/08			19.0	48.3	50.0	1417	F	4	4.45%	7.44
BL-UR1-AC5-G, 9/6/08			15.0	38.1	30.0	850	F	4	2.19%	4.77
BL-UR1-AC6-G, 9/6/08			16.0	40.6	30.0	850	M	3/4	0.625%	14.0
BL-UR1-AC7-G, 9/6/08			20.0	50.8	64.0	1814	M	5	2.50%	17.6
BL-UR1-AC8-G, 9/6/08			19.5	49.5	48.0	1361	M	4/5	0.340%	2.08
BL-UR1-AC9-G, 9/6/08			25.0	63.5	113	3203	M	8	7.49%	53.9
BL-UR1-AC10-G, 9/6/08			24.0	61.0	124	3515	M	7/8	7.55%	28.4
BL-UR1-AC11-G, 9/6/08			21.0	53.3	69.0	1956	F	5/6	3.44%	9.48
BL-UR1-AC12-G, 9/6/08			23.0	58.4	96.0	2722	M	7	3.02%	29.4
BL-UR1-AC13-G, 9/6/08			25.0	63.5	152	4309	F	8	13.69%	33.3
BL-UR1-AC14-G, 9/6/08			25.0	63.5	123	3487	F	8	1.01%	9.55
BL-UR1-AC15-G, 9/6/08			22.5	57.2	96.0	2722	F	6/7	8.70%	55.5
BL-UR1-AC16-G, 9/6/08			23.0	58.4	100	2835	M	7	7.03%	36.9
Mean Result for Adult Carp			21.3	54.1	79.4	2250	NA	6.01	4.55%	25.9
Minimum Results for Adult Carp			15.0	38.1	30.0	850	NA	3.50	0.340%	1.63
Maximum Results for Adult Carp			25.0	63.5	152.0	4309	NA	8.00	13.69%	73.1
Standard Deviation for Adult Carp			3.18	8.08	37.4	1059	NA	1.65	3.60%	21.4
Coefficient of Variation for Adult Carp			0.149	0.149	0.471	0.471	NA	0.274	0.791	0.83
Distribution for Adult Carp			Normal							
Upper 95% UCL for Adult Carp			22.9	58.1	97.7	2769	NA	6.82	6.31%	35.3

Distribution of PCB results determined using ProUCL, Version 4.00.02.

FISH SAMPLE RESULTS - UPPER RIVER SITE 1 (UR1)

Sample ID, Collection Date	*Sample Type*	*Sample Form*	*Length (in)*	*Length (cm)*	*Weight (ounces)*	*Weight (grams)*	*Gender (M/F)*	*Age (Yr)*[1]	*Fat (%)*	*PCB (mg/kg)*
BL-UR1-AWS1-G, 8/18/08	Adult White Sucker	SO	16.0	40.6	24.0	680.4	M	4	1.40%	15.9
BL-UR1-AWS2-G, 8/18/08			14.0	35.6	16.0	454	M	4	1.33%	16.6
BL-UR1-AWS3-G, 8/19/08			13.0	33.0	16.0	454	M	3	0.555%	10.3
BL-UR1-AWS4-G, 8/19/08			12.0	30.5	19.0	539	M	3	1.52%	20.6
BL-UR1-AWS5-G, 9/6/08			14.0	35.6	18.0	510	M	4	0.855%	10.6
BL-UR1-AWS6-G, 9/6/08			12.0	30.5	14.0	397	M	3	0.495%	5.74
BL-UR1-AWS7-G, 9/6/08			14.0	35.6	19.0	539	M	3	0.330%	7.34
BL-UR1-AWS8-G, 9/6/08			11.5	29.2	11.0	312	M	3	0.760%	12.3
Mean Result for Adult White Sucker			13.3	33.8	17.1	485	NA	3.38	0.905%	12.4
Minimum Results for Adult White Sucker			11.5	29.2	11.0	312	NA	3.00	0.330%	5.74
Maximum Results for Adult White Sucker			16.0	40.6	24.0	680	NA	4.00	1.52%	20.6
Standard Deviation for Adult White Sucker			1.49	3.77	3.87	110	NA	0.518	0.454%	5.00
Coefficient of Variation for Adult White Sucker			0.112	0.111	0.226	0.226	NA	0.153	0.502	0.402
Distribution for Adult White Sucker			Normal							
Upper 95% UCL for Adult White Sucker			14.3	36.4	19.8	562	NA	3.73	1.22%	15.8

BL-UR1-JWS1-G, 8/19/08	Juvenile White Sucker	SO	6.00	15.2	2.00	56.7	M	1	0.151%	9.71
BL-UR1-JWS2-G, 8/19/08			6.00	15.2	1.00	28.3	M	1	0.367%	8.93
BL-UR1-JWS3-G, 8/19/08			5.00	12.7	1.00	28.3	M	1	0.462%	6.08
BL-UR1-JWS4-G, 8/19/08			6.00	15.2	2.00	56.7	M	1	0.248%	4.85
BL-UR1-JWS5-G, 8/20/08			7.00	17.8	2.00	56.7	M	1	0.330%	7.76
BL-UR1-JWS6-G, 8/20/08			6.00	15.2	1.00	28.3	M	1	0.638%	6.51
BL-UR1-JWS7-G, 8/20/08			6.50	16.5	2.00	56.7	M	1	0.281%	2.28
BL-UR1-JWS8-G, 8/20/08			6.00	15.2	2.00	56.7	M	1	0.275%	1.99
Mean Result for Juvenile White Sucker			6.06	15.4	1.63	46.1	NA	1.00	0.344%	6.01
Minimum Results for Juvenile White Sucker			5.00	12.7	1.00	28.3	NA	1.00	0.151%	1.99
Maximum Results for Juvenile White Sucker			7.00	17.8	2.00	56.7	NA	1.00	0.638%	9.71
Standard Deviation for Juvenile White Sucker			0.563	1.43	0.518	14.7	NA	0.00	0.149%	2.85
Coefficient of Variation for Juvenile White Sucker			0.093	0.093	0.318	0.318	NA	0.00	0.434	0.474
Distribution for Juvenile White Sucker			Normal							
Upper 95% UCL for Juvenile White Sucker			6.45	16.4	1.98	56.2	NA	NA	0.448%	7.92

Distribution of PCB results determined using ProUCL, Version 4.00.02.

FISH SAMPLE RESULTS - UPPER RIVER SITE 1 (UR1)

Sample ID, Collection Date	*Sample Type*	*Sample Form*	*Length (in)*	*Length (cm)*	*Weight (ounces)*	*Weight (grams)*	*Gender (M/F)*	*Age (Yr)* [1]	*Fat (%)*	*PCB (mg/kg)*
BL-UR1-SB1-G, 8/18/08	Smallmouth Bass	SO	13.0	33.0	22.0	624	F	5	0.625%	18.6
BL-UR1-SB2-G, 8/18/08			10.0	25.4	8.0	227	M	3	0.400%	21.5
BL-UR1-SB3-G, 8/19/08			15.0	38.1	34.0	964	F	6	1.43%	15.2
BL-UR1-SB4-G, 8/19/08			10.0	25.4	11.0	312	M	3/4	0.490%	22.2
BL-UR1-SB5-G, 8/19/08			10.0	25.4	8.0	227	M	3	0.695%	7.33
BL-UR1-SB6-G, 8/19/08			11.0	27.9	12.0	340	M	3/4	0.765%	6.14
BL-UR1-SB7-G, 8/19/08			14.0	35.6	23.0	652	F	6	1.17%	8.59
BL-UR1-SB8-G, 8/19/08			10.0	25.4	8.00	227	M	4	0.430%	4.09
Mean Result for Smallmouth Bass			11.6	29.5	15.8	447	NA	4.25	0.750%	13.0
Minimum Results for Smallmouth Bass			10.0	25.4	8.00	227	NA	3.00	0.400%	4.09
Maximum Results for Smallmouth Bass			15.0	38.1	34.0	964	NA	6.00	1.43%	22.2
Standard Deviation for Smallmouth Bass			2.07	5.25	9.57	271	NA	1.25	0.368%	7.28
Coefficient of Variation for Smallmouth Bass			0.178	0.178	0.608	0.608	NA	0.295	0.490	0.562
Distribution for Smallmouth Bass			Normal							
Upper 95% UCL for Smallmouth Bass			13.1	33.2	22.4	635	NA	5.12	1.00%	17.8

BL-UR1-RB1-G, 8/19/08	Rock Bass	SO	8.50	21.6	8.00	227	M	5	0.415%	6.53
BL-UR1-RB2-G, 8/20/08			8.00	20.3	7.00	198	M	4/5	0.590%	5.82
BL-UR1-RB3-G, 8/20/08			5.50	14.0	2.00	57	M	4	0.775%	16.8
BL-UR1-RB4-G, 8/20/08			6.00	15.2	4.00	113	M	3/4	1.02%	10.4
BL-UR1-RB5-G, 8/20/08			6.00	15.2	4.00	113	M	4	0.581%	7.91
BL-UR1-RB6-G, 8/20/08			7.00	17.8	4.00	113	M	4	0.325%	1.22
BL-UR1-RB7-G, 8/20/08			8.00	20.3	6.00	170	M	4	0.485%	1.57
BL-UR1-RB8-G, 8/20/08			5.50	14.0	3.00	85.0	M	3	0.619%	5.30
Mean Result for Rock Bass			6.81	17.3	4.75	135	NA	4.00	0.601%	6.94
Minimum Results for Rock Bass			5.50	14.0	2.00	56.7	NA	3.00	0.325%	1.22
Maximum Results for Rock Bass			8.50	21.6	8.00	227	NA	5.00	1.02%	16.8
Standard Deviation for Rock Bass			1.22	3.11	2.05	58.2	NA	0.598	0.217%	5.01
Coefficient of Variation for Rock Bass			0.180	0.180	0.432	0.432	NA	0.149	0.362	0.722
Distribution for Rock Bass			Normal							
Upper 95% UCL for Rock Bass			7.66	19.5	6.17	175	NA	4.41	0.752%	10.3

Distribution of PCB results determined using ProUCL, Version 4.00.02.

FISH SAMPLE RESULTS - UPPER RIVER SITE 1 (UR1)

Sample ID, Collection Date	*Sample Type*	*Sample Form*	*Length (in)*	*Length (cm)*	*Weight (ounces)*	*Weight (grams)*	*Gender (M/F)*	*Age (Yr)*[1]	*Fat (%)*	*PCB (mg/kg)*
BL-UR1-LD1-G, 9/12/08	Longnose Dace	W	3.00	7.62	0.260	7.37	TS	NA	2.77%	17.6
BL-UR1-LD2-G, 9/12/08			2.50	6.35	0.120	3.40	TS	NA	1.24%	3.20
BL-UR1-LD3-G, 9/12/08			2.00	5.08	0.070	1.98	TS	NA	1.14%	1.72
BL-UR1-LD4-G, 9/12/08			2.50	6.35	0.100	2.83	TS	NA	2.30%	3.29
BL-UR1-LD5-G, 9/17/08			3.50	8.89	0.260	7.37	TS	NA	4.00%	15.1
BL-UR1-LD6-G, 9/17/08			2.50	6.35	0.090	2.55	TS	NA	4.40%	5.11
Mean Result for Longnose Dace			2.67	6.77	0.150	4.25	NA	NA	2.64%	7.67
Minimum Results for Longnose Dace			2.00	5.08	0.070	1.98	NA	NA	1.140%	1.72
Maximum Results for Longnose Dace			3.50	8.89	0.260	7.37	NA	NA	4.40%	17.6
Standard Deviation for Longnose Dace			0.516	1.31	0.087	2.46	NA	NA	1.363%	6.85
Coefficient of Variation for Longnose Dace			0.194	0.194	0.578	0.578	NA	NA	0.516	0.894
Distribution for Longnose Dace			Normal							
Upper 95% UCL for Longnose Dace			3.08	7.82	0.22	6.22	NA	NA	3.73%	13.3

NA - Not applicable
TS - Too small to gender/age
SO - Scale off, skin on fillet
SOF - Skin off fillet
W - Whole fish

[1] Where fish ages were in between ages, a half age was applied for the calculations. For example: 4/5 would be 4.5 years.

Distribution of PCB results determined using ProUCL, Version 4.00.02.

UPPER RIVER 2

FISH SAMPLE RESULTS - UPPER RIVER SITE 2 (UR2)

Sample ID, Collection Date	*Sample Type*	*Sample Form*	*Length (in)*	*Length (cm)*	*Weight (ounces)*	*Weight (grams)*	*Gender (M/F)*	*Age (Yr)* [1]	*Fat (%)*	*PCB (mg/kg)*
BL-UR2-AC1-G, 8/21/08	Adult Carp	SO	21.0	53.3	70.0	1984	M	5/6	7.39%	34.5
BL-UR2-AC2-G, 8/21/08			23.0	58.4	86.0	2438	M	6/7	2.05%	5.14
BL-UR2-AC3-G, 8/21/08			18.0	45.7	32.0	907	M	4	3.99%	3.18
BL-UR2-AC4-G, 8/21/08			15.0	38.1	31.0	879	M	4	4.64%	7.84
BL-UR2-AC5-G, 9/6/08			18.0	45.7	35.0	992	M	4	1.26%	3.73
BL-UR2-AC6-G, 9/6/08			23.5	59.7	94.0	2665	M	7	3.25%	30.2
BL-UR2-AC7-G, 9/6/08			21.5	54.6	84.0	2381	M	6	0.975%	9.23
BL-UR2-AC8-G, 9/6/08			22.5	57.2	95.0	2693	M	6	3.16%	22.7
BL-UR2-AC9-G, 9/6/08			18.0	45.7	46.0	1304	F	4	0.955%	3.55
BL-UR2-AC10-G, 9/6/08			15.0	38.1	22.0	624	F	4	0.315%	1.71
BL-UR2-AC11-G, 9/6/08			25.0	63.5	122	3459	F	8	10.03%	47.7
BL-UR2-AC12-G, 9/6/08			20.5	52.1	64.0	1814	M	7	1.06%	10.5
BL-UR2-AC13-G, 9/6/08			20.0	50.8	47.0	1332	M	5	0.290%	1.02
BL-UR2-AC14-G, 9/6/08			23.0	58.4	93.0	2637	F	7	2.06%	15.8
BL-UR2-AC15-G, 9/6/08			17.5	44.5	37.0	1049	M	4/5	0.405%	1.39
BL-UR2-AC16-G, 9/6/08			24.5	62.2	120	3402	F	7/8	7.55%	37.3
Mean Result for Adult Carp			20.4	51.8	67.4	1910	NA	5.63	3.08%	14.7
Minimum Results for Adult Carp			15.0	38.1	22.0	624	NA	4.00	0.290%	1.02
Maximum Results for Adult Carp			25.0	63.5	122	3459	NA	8.00	10.0%	47.7
Standard Deviation for Adult Carp			3.18	8.07	32.7	926	NA	1.43	2.96%	15.0
Coefficient of Variation for Adult Carp			0.156	0.156	0.485	0.485	NA	0.255	0.958	1.02
Distribution for Adult Carp			Gamma							
Upper 95% UCL for Adult Carp			21.9	55.7	83.4	2364	NA	6.33	4.53%	24.9

BL-UR2-AWS1-G, 8/21/08	Adult White Sucker	SO	11.0	27.9	8.00	227	M	3	0.960%	10.8
BL-UR2-AWS2-G, 8/21/08			13.0	33.0	15.0	425	M	3	1.32%	12.0
BL-UR2-AWS3-G, 8/21/08			14.0	35.6	18.0	510	M	3	1.14%	5.04
BL-UR2-AWS4-G, 8/21/08			9.00	22.9	7.00	198	M	2	0.715%	9.44
BL-UR2-AWS5-G, 9/6/08			10.0	25.4	9.00	255	M	3	0.355%	3.95
BL-UR2-AWS6-G, 9/6/08			13.5	34.3	16.0	454	M	3	1.28%	16.6
BL-UR2-AWS7-G, 9/6/08			14.0	35.6	19.0	539	M	3	1.12%	5.95
BL-UR2-AWS8-G, 9/6/08			13.0	33.0	17.0	482	M	3	0.840%	7.52
Mean Result for Adult White Sucker			12.2	31.0	13.6	386	NA	2.88	0.965%	8.92
Minimum Results for Adult White Sucker			9.00	22.9	7.00	198	NA	2.00	0.355%	3.95
Maximum Results for Adult White Sucker			14.0	35.6	19.0	539	NA	3.00	1.32%	16.6
Standard Deviation for Adult White Sucker			1.93	4.89	4.84	137	NA	0.354	0.322%	4.19
Coefficient of Variation for Adult White Sucker			0.158	0.158	0.355	0.355	NA	0.123	0.334	0.470
Distribution for Adult White Sucker			Normal							
Upper 95% UCL for Adult White Sucker			13.5	34.3	17.0	481	NA	3.12	1.19%	11.7

Distribution of PCB results determined using ProUCL, Version 4.00.02.

FISH SAMPLE RESULTS - UPPER RIVER SITE 2 (UR2)

Sample ID, Collection Date	*Sample Type*	*Sample Form*	*Length (in)*	*Length (cm)*	*Weight (ounces)*	*Weight (grams)*	*Gender (M/F)*	*Age (Yr)* [1]	*Fat (%)*	*PCB (mg/kg)*
BL-UR2-JWS1-G, 8/21/08	Juvenile White Sucker	SO	6.00	15.2	5.00	142	M	1	0.510%	4.39
BL-UR2-JWS2-G, 8/21/08			7.00	17.8	4.00	113	M	1	0.450%	11.5
BL-UR2-JWS3-G, 8/21/08			6.00	15.2	1.00	28.3	M	1	0.580%	5.71
BL-UR2-JWS4-G, 8/21/08			5.00	12.7	1.00	28.3	M	1	0.440%	5.96
BL-UR2-JWS5-G, 8/21/08			5.00	12.7	1.00	28.3	M	1	0.490%	9.32
BL-UR2-JWS6-G, 8/21/08			7.00	17.8	2.00	56.7	M	1	0.410%	4.17
BL-UR2-JWS7-G, 8/21/08			8.00	20.3	3.00	85.0	M	2	0.595%	3.73
BL-UR2-JWS8-G, 8/21/08			7.00	17.8	2.00	56.7	M	1	0.510%	9.78
Mean Result for Juvenile White Sucker			6.38	16.2	2.38	67.3	NA	1.13	0.498%	6.82
Minimum Results for Juvenile White Sucker			5.00	12.7	1.00	28.3	NA	1.00	0.410%	3.73
Maximum Results for Juvenile White Sucker			8.00	20.3	5.00	142	NA	2.00	0.595%	11.5
Standard Deviation for Juvenile White Sucker			1.06	2.69	1.51	42.7	NA	0.354	0.065%	2.96
Coefficient of Variation for Juvenile White Sucker			0.166	0.166	0.634	0.634	NA	0.314	0.131	0.434
Distribution for Juvenile White Sucker			Normal							
Upper 95% UCL for Juvenile White Sucker			7.11	18.1	3.42	96.9	NA	1.37	0.543%	8.80
BL-UR2-SB1-G, 8/21/08	Smallmouth Bass	SO	11.0	27.9	9.00	255	F	3	1.78%	28.9
BL-UR2-SB2-G, 8/21/08			13.0	33.0	19.0	539	F	5	0.775%	5.34
BL-UR2-SB3-G, 8/21/08			11.0	27.9	11.0	312	M	3	1.16%	14.9
BL-UR2-SB4-G, 8/21/08			12.0	30.5	14.0	397	F	5	1.67%	33.5
BL-UR2-SB5-G, 8/2108			13.0	33.0	19.0	539	F	5	1.26%	3.12
BL-UR2-SB6-G, 8/21/08			10.0	25.4	10.0	283	M	3	0.970%	6.41
BL-UR2-SB7-G, 8/21/08			10.0	25.4	11.0	312	M	3	1.69%	13.5
BL-UR2-SB8-G, 8/21/08			10.0	25.4	8.00	227	M	3	1.29%	10.5
Mean Result for Smallmouth Bass			11.3	28.6	12.6	358	NA	3.75	1.32%	14.5
Minimum Results for Smallmouth Bass			10.0	25.4	8.00	227	NA	3.00	0.775%	3.12
Maximum Results for Smallmouth Bass			13.0	33.0	19.0	539	NA	5.00	1.78%	33.5
Standard Deviation for Smallmouth Bass			1.28	3.26	4.31	122	NA	1.04	0.361%	11.1
Coefficient of Variation for Smallmouth Bass			0.114	0.114	0.341	0.341	NA	0.276	0.273	0.765
Distribution for Smallmouth Bass			Normal							
Upper 95% UCL for Smallmouth Bass			12.1	30.8	15.6	443	NA	4.47	1.57%	22.0

Distribution of PCB results determined using ProUCL, Version 4.00.02.

FISH SAMPLE RESULTS - UPPER RIVER SITE 2 (UR2)

Sample ID, Collection Date	*Sample Type*	*Sample Form*	*Length (in)*	*Length (cm)*	*Weight (ounces)*	*Weight (grams)*	*Gender (M/F)*	*Age (Yr)* [1]	*Fat (%)*	*PCB (mg/kg)*
BL-UR2-RB1-G, 8/21/08	Rock Bass	SO	9.00	22.9	9.00	255	F	5	0.405%	1.04
BL-UR2-RB2-G, 8/21/08			8.00	20.3	8.00	227	M	4	0.670%	4.24
BL-UR2-RB3-G, 8/21/08			6.00	15.2	2.00	56.7	M	4	0.980%	8.25
BL-UR2-RB4-G, 8/22/08			7.00	17.8	4.00	113	M	4	1.20%	8.72
BL-UR2-RB5-G, 8/22/08			8.00	20.3	7.00	198	M	5	0.470%	4.32
BL-UR2-RB6-G, 8/22/08			8.00	20.3	7.00	198	F	4	0.705%	3.78
BL-UR2-RB7-G, 8/22/08			8.00	20.3	7.00	198	M	4/5	0.580%	3.04
BL-UR2-RB8-G, 9/6/08			8.00	20.3	6.00	170	M	4	0.240%	0.739
Mean Result for Rock Bass			7.75	19.7	6.25	177	NA	4.31	0.656%	4.27
Minimum Results for Rock Bass			6.00	15.2	2.00	56.7	NA	4.00	0.240%	0.739
Maximum Results for Rock Bass			9.00	22.9	9.00	255	NA	5.00	1.200%	8.72
Standard Deviation for Rock Bass			0.886	2.25	2.25	63.8	NA	0.458	0.312%	2.94
Coefficient of Variation for Rock Bass			0.114	0.114	0.360	0.360	NA	0.106	0.475	0.688
Distribution for Rock Bass			Normal							
Upper 95% UCL for Rock Bass			8.36	21.2	7.81	221	NA	4.63	0.872%	6.23

NA - Not applicable
SO - Scale off, skin on fillet
SOF - Skin off fillet
W - Whole fish

[1] Where fish ages were in between ages, a half age was applied for the calculations. For example: 4/5 would be 4.5 years.

Distribution of PCB results determined using ProUCL, Version 4.00.02.

MIDDLE RIVER 1

FISH SAMPLE RESULTS - MIDDLE RIVER SITE 1 (MR1)

Sample ID, Collection Date	*Sample Type*	*Sample Form*	*Length (in)*	*Length (cm)*	*Weight (ounces)*	*Weight (grams)*	*Gender (M/F)*	*Age (Yr)* [1]	*Fat (%)*	*PCB (mg/kg)*
BL-MR1-AC1-G, 9/16/08	Adult Carp	SO	16.0	40.6	28.0	794	M	4	1.22%	2.06
BL-MR1-AC2-G, 9/16/08			16.0	40.6	23.0	652	M	4	0.770%	1.71
BL-MR1-AC3-G, 9/16/08			17.0	43.2	32.0	907	M	4	0.390%	1.33
BL-MR1-AC4-G, 9/16/08			17.0	43.2	36.0	1021	F	4	3.21%	2.51
BL-MR1-AC5-G, 9/16/08			15.5	39.4	28.0	794	M	4	0.845%	1.62
BL-MR1-AC6-G, 9/16/08			16.0	40.6	25.0	709	M	4	1.17%	1.28
BL-MR1-AC7-G, 9/16/08			17.5	44.5	36.0	1021	M	4	1.14%	2.21
BL-MR1-AC8-G, 9/16/08			20.5	52.1	74.0	2098	F	6	3.16%	22.8
Mean Result for Adult Carp			16.9	43.0	35.3	999	NA	4.25	1.49%	4.44
Minimum Results for Adult Carp			15.5	39.4	23.0	652	NA	4.00	0.390%	1.28
Maximum Results for Adult Carp			20.5	52.1	74.0	2098	NA	6.00	3.21%	22.8
Standard Deviation for Adult Carp			1.59	4.05	16.4	464	NA	0.707	1.08%	7.43
Coefficient of Variation for Adult Carp			0.094	0.094	0.464	0.464	NA	0.166	0.728	1.67
Distribution for Adult Carp			Non-Parametric							
Upper 95% UCL for Adult Carp			18.0	45.8	46.6	1321	NA	4.74	2.24%	15.89

BL-MR1-AWS1-G, 9/16/08	Adult White Sucker	SO	16.0	40.6	31.0	879	M	4	0.870%	3.72
BL-MR1-AWS2-G, 9/16/08			15.0	38.1	26.0	737	M	3	1.30%	11.8
BL-MR1-AWS3-G, 9/16/08			10.0	25.4	8.0	227	M	2	0.740%	3.24
BL-MR1-AWS4-G, 9/17/08			16.0	40.6	26.0	737	M	3/4	0.795%	19.9
BL-MR1-AWS5-G, 9/17/08			16.0	40.6	28.0	794	M	4	1.50%	8.79
BL-MR1-AWS6-G, 9/17/08			14.0	35.6	18.0	510	M	3	0.705%	4.68
BL-MR1-AWS7-G, 9/17/08			16.0	40.6	27.0	765	M	4	1.01%	9.23
Mean Result for Adult White Sucker			14.7	37.4	23.4	664	NA	3.36	0.987%	8.77
Minimum Results for Adult White Sucker			10.0	25.4	8.0	227	NA	2.00	0.705%	3.24
Maximum Results for Adult White Sucker			16.0	40.6	31.0	879	NA	4.00	1.50%	19.9
Standard Deviation for Adult White Sucker			2.21	5.62	7.87	223	NA	0.748	0.303%	5.86
Coefficient of Variation for Adult White Sucker			0.151	0.150	0.336	0.336	NA	0.223	0.307	0.669
Distribution for Adult White Sucker			Normal							
Upper 95% UCL for Adult White Sucker			16.4	41.5	29.3	829	NA	3.91	1.21%	13.07

Distribution for PCB results determined using Pro UCL, Version 4.00.02.

FISH SAMPLE RESULTS - MIDDLE RIVER SITE 1 (MR1)

Sample ID, Collection Date	*Sample Type*	*Sample Form*	*Length (in)*	*Length (cm)*	*Weight (ounces)*	*Weight (grams)*	*Gender (M/F)*	*Age (Yr)* [1]	*Fat (%)*	*PCB (mg/kg)*
BL-MR1-SB1-G, 9/16/08	Smallmouth Bass	SO	13.0	33.0	22.0	624	M	5	1.37%	14.1
BL-MR1-SB2-G, 9/16/08			15.0	38.1	32.0	907	F	6	2.27%	6.04
BL-MR1-SB3-G, 9/16/08			14.0	35.6	21.0	595	M	5	1.09%	5.77
BL-MR1-SB4-G, 9/16/08			14.0	35.6	21.0	595	F	5	0.815%	4.20
BL-MR1-SB5-G, 9/16/08			14.5	36.8	25.0	709	M	6	0.765%	7.46
BL-MR1-SB6-G, 9/16/08			12.0	30.5	18.0	510	M	5	0.680%	9.29
BL-MR1-SB7-G, 9/16/08			15.0	38.1	30.0	850	M	6	1.30%	18.2
BL-MR1-SB8-G, 9/16/08			11.0	27.9	11.0	312	M	4	0.830%	4.97
Mean Result for Smallmouth Bass			13.6	34.4	22.5	638	NA	5.25	1.14%	8.75
Minimum Results for Smallmouth Bass			11.0	27.9	11.0	312	NA	4.00	0.680%	4.20
Maximum Results for Smallmouth Bass			15.0	38.1	32.0	907	NA	6.00	2.27%	18.2
Standard Deviation for Smallmouth Bass			1.45	3.68	6.65	189	NA	0.707	0.521%	4.94
Coefficient of Variation for Smallmouth Bass			0.107	0.107	0.296	0.296	NA	0.135	0.458	0.565
Distribution for Smallmouth Bass			Normal							
Upper 95% UCL for Smallmouth Bass			14.6	37.0	27.1	769	NA	5.74	1.50%	12.1

BL-MR1-RB1-G, 9/17/08	Rock Bass	SO	7.00	17.8	6.00	170	M	4	0.810%	2.79
Mean Result for Rock Bass			7.00	17.8	6.00	170	NA	NA	0.810%	2.79
Minimum Results for Rock Bass			7.00	17.8	6.00	170	NA	NA	0.810%	2.79
Maximum Results for Rock Bass			7.00	17.8	6.00	170	NA	NA	0.810%	2.79
Standard Deviation for Rock Bass			NA	NA	NA	NA	NA	NA	NA	NA
Coefficient of Variation for Rock Bass			NA	NA	NA	NA	NA	NA	NA	NA
Distribution for Rock Bass			NA	NA	NA	NA	NA	NA	NA	NA
Upper 95% UCL for Rock Bass			NA	NA	NA	NA	NA	NA	NA	NA

Distribution for PCB results determined using Pro UCL, Version 4.00.02.

FISH SAMPLE RESULTS - MIDDLE RIVER SITE 1 (MR1)

Sample ID, Collection Date	*Sample Type*	*Sample Form*	*Length (in)*	*Length (cm)*	*Weight (ounces)*	*Weight (grams)*	*Gender (M/F)*	*Age (Yr)* [1]	*Fat (%)*	*PCB (mg/kg)*
BL-MR1-LD1-G, 9/10/08	Longnose Dace	W	4.00	10.2	0.330	9.36	TS	NA	5.82%	17.8
BL-MR1-LD2-G, 9/10/08			3.50	8.89	0.270	7.65	TS	NA	2.08%	8.35
BL-MR1-LD3-G, 9/10/08			2.00	5.08	0.080	2.27	TS	NA	3.64%	8.92
BL-MR1-LD4-G, 9/10/08			2.50	6.35	0.090	2.55	TS	NA	4.84%	7.08
BL-MR1-LD5-G, 9/11/08			2.00	5.08	0.060	1.70	TS	NA	2.70%	7.10
BL-MR1-LD6-G, 9/11/08			2.00	5.08	0.060	1.70	TS	NA	3.09%	7.56
Mean Result for Longnose Dace			2.67	6.78	0.148	4.21	NA	NA	3.70%	9.47
Minimum Results for Longnose Dace			2.00	5.08	0.060	1.70	NA	NA	2.08%	7.08
Maximum Results for Longnose Dace			4.00	10.2	0.330	9.36	NA	NA	5.82%	17.8
Standard Deviation for Longnose Dace			0.876	2.24	0.120	3.39	NA	NA	1.40%	4.15
Coefficient of Variation for Longnose Dace			0.328	0.330	0.806	0.806	NA	NA	0.379	0.438
Distribution for Longnose Dace			Non-Parametric							
Upper 95% UCL for Longnose Dace			3.37	8.57	0.244	6.92	NA	NA	4.81%	12.88

BL-MR1-CC1-G, 9/17/08	Channel Catfish	SOF	21.0	53.3	55.0	1559	M	8	4.02%	15.9
BL-MR1-CC2-G, 9/17/08			22.0	55.9	71.0	2013	M	8	12.6%	49.2
BL-MR1-CC3-G, 9/17/08			19.0	48.3	42.0	1191	F	6	6.34%	29.8
BL-MR1-CC4-G, 9/17/08			20.0	50.8	59.0	1673	F	6/7	5.27%	16.6
Mean Result for Channel Catfish			20.5	52.1	56.8	1609	NA	7.13	7.04%	27.9
Minimum Results for Channel Catfish			19.0	48.3	42.0	1191	NA	6.00	4.02%	15.9
Maximum Results for Channel Catfish			22.0	55.9	71.0	2013	NA	8.00	12.6%	49.2
Standard Deviation for Channel Catfish			1.29	3.28	12.0	339	NA	1.03	3.80%	15.6
Coefficient of Variation for Channel Catfish			0.063	0.063	0.211	0.211	NA	0.145	0.539	0.559
Distribution for Channel Catfish			To few samples to determine**							
Upper 95% UCL for Channel Catfish			21.8	55.3	68.5	1941	NA	8.135	10.8%	43.2

Distribution for PCB results determined using Pro UCL, Version 4.00.02.

FISH SAMPLE RESULTS - MIDDLE RIVER SITE 1 (MR1)

Sample ID, Collection Date	*Sample Type*	*Sample Form*	*Length (in)*	*Length (cm)*	*Weight (ounces)*	*Weight (grams)*	*Gender (M/F)*	*Age (Yr)* [1]	*Fat (%)*	*PCB (mg/kg)*
BL-MR1-W1-G, 9/16/08	Walleye	SO	21.0	53.3	58.0	1644	M	6	2.33%	16.8
BL-MR1-W2-G, 9/16/08			19.5	49.5	54.0	1531	M	5	2.11%	16.3
BL-MR1-W3-G, 9/16/08			12.5	31.8	12.0	340	M	2	0.595%	5.58
BL-MR1-W4-G, 9/16/08			16.0	40.6	22.0	624	M	3	1.52%	13.7
BL-MR1-W5-G, 9/16/08			16.0	40.6	22.0	624	M	3	0.695%	7.93
BL-MR1-W6-G, 9/16/08			17.5	44.5	33.0	936	M	4	1.61%	14.3
BL-MR1-W7-G, 9/16/08			13.0	33.0	12.0	340	M	2	0.465%	6.03
BL-MR1-W8-G, 9/16/08			15.5	39.4	20.0	567	M	3	1.00%	8.41
Mean Result for Walleye			16.4	41.6	29.1	826	NA	3.50	1.29%	11.1
Minimum Results for Walleye			12.5	31.8	12.0	340	NA	2.00	0.465%	5.58
Maximum Results for Walleye			21.0	53.3	58.0	1644	NA	6.00	2.33%	16.8
Standard Deviation for Walleye			2.92	7.43	17.9	507	NA	1.41	0.706%	4.63
Coefficient of Variation for Walleye			0.179	0.179	0.614	0.614	NA	0.404	0.548	0.416
Distribution for Walleye			Normal							
Upper 95% UCL for Walleye			18.4	46.7	41.5	1177	NA	4.48	1.78%	14.2

NA - Not applicable
TS - Too small to gender/age
SO - Scale off, skin on fillet
SOF - Skin off fillet
W - Whole fish

** ProUCL could not determine. Based on the coefficient of variation being less than 1.0 and the majority of other data being normal, it was assumed to be normal and 95% UCL was determined accordingly.

[1] Where fish ages were in between ages, a half age was applied for the calculations. For example: 4/5 would be 4.5 years.

Distribution for PCB results determined using Pro UCL, Version 4.00.02.

MIDDLE RIVER 2

FISH SAMPLE RESULTS - MIDDLE RIVER SITE 2 (MR2)

Sample ID, Collection Date	*Sample Type*	*Sample Form*	*Length (in)*	*Length (cm)*	*Weight (ounces)*	*Weight (grams)*	*Gender (M/F)*	*Age (Yr)* [1]	*Fat (%)*	*PCB (mg/kg)*
BL-MR2-AC1-G, 9/15/08	Adult Carp	SO	19.0	48.3	44.0	1247	M	5	0.730%	1.27
Mean Result for Adult Carp			19.0	48.3	44.0	1247	NA	NA	0.730%	1.27
Minimum Results for Adult Carp			19.0	48.3	44.0	1247	NA	NA	0.730%	1.27
Maximum Results for Adult Carp			19.0	48.3	44.0	1247	NA	NA	0.730%	1.27
Standard Deviation for Adult Carp			NA	NA	NA	NA	NA	NA	NA	NA
Coefficient of Variation for Adult Carp			NA	NA	NA	NA	NA	NA	NA	NA
Distribution for Adult Carp			NA	NA	NA	NA	NA	NA	NA	NA
Upper 95% UCL for Adult Carp			NA	NA	NA	NA	NA	NA	NA	NA
BL-MR2-AWS1-G, 9/8/08	Adult White Sucker	SO	14.5	36.8	17.0	482	M	4	0.200%	3.24
BL-MR2-AWS2-G, 9/8/08			14.5	36.8	18.0	510	M	4	0.170%	2.37
BL-MR2-AWS3-G, 9/8/08			14.0	35.6	20.0	567	M	3	0.520%	3.51
BL-MR2-AWS4-G, 9/8/08			16.0	40.6	26.0	737	F	4	0.715%	3.48
BL-MR2-AWS5-G, 9/8/08			14.0	35.6	13.0	369	M	3	0.150%	0.925
BL-MR2-AWS6-G, 9/8/08			16.0	40.6	23.0	652	F	4	1.23%	6.36
BL-MR2-AWS7-G, 9/8/08			15.0	38.1	22.0	624	F	3	0.585%	6.98
BL-MR2-AWS8-G, 9/8/08			13.5	34.3	16.0	454	M	3	1.36%	4.83
Mean Result for Adult White Sucker			14.7	37.3	19.4	549	NA	3.50	0.616%	3.96
Minimum Results for Adult White Sucker			13.5	34.3	13.0	369	NA	3.00	0.150%	0.925
Maximum Results for Adult White Sucker			16.0	40.6	26.0	737	NA	4.00	1.36%	6.98
Standard Deviation for Adult White Sucker			0.923	2.35	4.21	119	NA	0.535	0.468%	2.01
Coefficient of Variation for Adult White Sucker			0.063	0.063	0.217	0.217	NA	0.153	0.760	0.508
Distribution for Adult White Sucker			Normal							
Upper 95% UCL for Adult White Sucker			15.3	38.9	22.3	632	NA	3.87	0.940%	5.31

Distribution of PCB results determined using ProUCL, Version 4.00.02.

FISH SAMPLE RESULTS - MIDDLE RIVER SITE 2 (MR2)

Sample ID, Collection Date	*Sample Type*	*Sample Form*	*Length (in)*	*Length (cm)*	*Weight (ounces)*	*Weight (grams)*	*Gender (M/F)*	*Age (Yr)* [1]	*Fat (%)*	*PCB (mg/kg)*
BL-MR2-JWS1-G, 9/8/08	Juvenile White Sucker	SO	8.00	20.3	3.00	85.0	M	2	0.480%	2.03
BL-MR2-JWS2-G, 9/8/08			8.00	20.3	3.00	85.0	M	1	0.400%	1.20
BL-MR2-JWS3-G, 9/15/08			8.00	20.3	4.00	113	M	1	0.740%	1.76
BL-MR2-JWS4-G, 9/15/08			8.00	20.3	3.00	85.0	M	1	0.575%	1.13
BL-MR2-JWS5-G, 9/15/08			8.00	20.3	3.00	85.0	M	1	0.270%	0.98
BL-MR2-JWS6-G, 9/15/08			8.00	20.3	3.00	85.0	M	1	0.557%	1.08
BL-MR2-JWS7-G, 9/15/08			6.00	15.2	2.00	56.7	M	1	0.455%	1.40
Mean Result for Juvenile White Sucker			7.71	19.6	3.00	85.0	NA	1.14	0.497%	1.37
Minimum Results for Juvenile White Sucker			6.00	15.2	2.00	56.7	NA	1.00	0.270%	0.98
Maximum Results for Juvenile White Sucker			8.00	20.3	4.00	113	NA	2.00	0.740%	2.03
Standard Deviation for Juvenile White Sucker			0.756	1.92	0.577	16.4	NA	0.378	0.148%	0.39
Coefficient of Variation for Juvenile White Sucker			0.098	0.098	0.192	0.192	NA	0.331	0.298	0.28
Distribution for Juvenile White Sucker			Normal							
Upper 95% UCL for Juvenile White Sucker			8.27	21.0	3.43	97.2	NA	1.42	0.606%	1.66
BL-MR2-SB1-G, 9/8/08	Smallmouth Bass	SO	17.0	43.2	43.0	1219	F	8	0.875%	3.53
BL-MR2-SB2-G, 9/8/08			14.5	36.8	27.0	765	M	6	1.09%	7.65
BL-MR2-SB3-G, 9/8/08			12.0	30.5	16.0	454	F	4	2.00%	5.54
BL-MR2-SB4-G, 9/8/08			11.0	27.9	15.0	425	F	3	1.06%	2.64
BL-MR2-SB5-G, 9/8/08			11.5	29.2	16.0	454	F	3	1.12%	3.65
BL-MR2-SB6-G, 9/8/08			11.0	27.9	13.0	369	F	3	1.09%	3.08
BL-MR2-SB7-G, 9/8/08			10.0	25.4	11.0	312	M	3	1.30%	4.28
BL-MR2-SB8-G, 9/8/08			12.0	30.5	16.0	454	M	4	1.26%	4.05
Mean Result for Smallmouth Bass			12.4	31.4	19.6	556	NA	4.25	1.22%	4.30
Minimum Results for Smallmouth Bass			10.0	25.4	11.0	312	NA	3.00	0.875%	2.64
Maximum Results for Smallmouth Bass			17.0	43.2	43.0	1219	NA	8.00	2.00%	7.65
Standard Deviation for Smallmouth Bass			2.28	5.79	10.6	299	NA	1.83	0.338%	1.61
Coefficient of Variation for Smallmouth Bass			0.184	0.184	0.538	0.538	NA	0.431	0.277	0.374
Distribution for Smallmouth Bass			Normal							
Upper 95% UCL for Smallmouth Bass			14.0	35.4	26.9	764	NA	5.52	1.46%	5.38

Distribution of PCB results determined using ProUCL, Version 4.00.02.

FISH SAMPLE RESULTS - MIDDLE RIVER SITE 2 (MR2)

Sample ID, Collection Date	*Sample Type*	*Sample Form*	*Length (in)*	*Length (cm)*	*Weight (ounces)*	*Weight (grams)*	*Gender (M/F)*	*Age (Yr)* [1]	*Fat (%)*	*PCB (mg/kg)*
BL-MR2-RB1-G, 9/8/08	Rock Bass	SO	7.00	17.8	4.00	113	M	4	0.480%	1.42
BL-MR2-RB2-G, 9/8/08			7.00	17.8	4.00	113	M	4	0.593%	2.09
BL-MR2-RB3-G, 9/15/08			7.00	17.8	6.00	170	M	3/4	1.24%	1.88
BL-MR2-RB4-G, 9/15/08			6.50	16.5	5.00	142	F	3	1.80%	3.47
BL-MR2-RB5-G, 9/15/08			5.50	14.0	2.00	56.7	M	3	1.02%	2.86
BL-MR2-RB6-G, 9/15/08			6.00	15.2	2.00	56.7	M	3	1.30%	3.70
BL-MR2-RB7-G, 9/15/08			6.00	15.2	2.00	56.7	M	3	0.583%	2.27
BL-MR2-RB8-G, 9/15/08			8.00	20.3	5.00	142	M	4	0.495%	2.20
Mean Result for Rock Bass			6.63	16.8	3.75	106	NA	3.44	0.939%	2.49
Minimum Results for Rock Bass			5.50	14.0	2.00	56.7	NA	3.00	0.480%	1.42
Maximum Results for Rock Bass			8.00	20.3	6.00	170	NA	4.00	1.80%	3.70
Standard Deviation for Rock Bass			0.791	2.01	1.58	44.8	NA	0.496	0.482%	0.790
Coefficient of Variation for Rock Bass			0.119	0.119	0.422	0.422	NA	0.144	0.513	0.318
Distribution for Rock Bass			Normal							
Upper 95% UCL for Rock Bass			7.17	18.2	4.85	137	NA	3.78	1.27%	3.02
BL-MR2-LD1-G, 9/10/08	Longnose Dace	W	3.50	8.89	0.210	5.95	M	NA	2.84%	6.20
BL-MR2-LD2-G, 9/10/08			3.50	8.89	0.340	9.64	TS	NA	5.02%	9.60
BL-MR2-LD3-G, 9/10/08			3.50	8.89	0.280	7.94	TS	NA	6.08%	10.9
BL-MR2-LD4-G, 9/10/08			4.00	10.2	0.390	11.1	TS	NA	5.50%	11.0
BL-MR2-LD5-G, 9/10/08			2.00	5.08	0.060	1.70	TS	NA	2.33%	4.86
BL-MR2-LD6-G, 9/10/08			2.50	6.35	0.110	3.12	TS	NA	5.09%	7.17
BL-MR2-LD7-G, 9/10/08			3.50	8.89	0.260	7.37	TS	NA	4.13%	9.86
BL-MR2-LD8-G, 9/10/08			3.00	7.62	0.240	6.80	TS	NA	5.74%	8.47
Mean Result for Longnose Dace			3.19	8.10	0.236	6.70	NA	NA	4.59%	8.51
Minimum Results for Longnose Dace			2.00	5.08	0.060	1.70	NA	NA	2.33%	4.86
Maximum Results for Longnose Dace			4.00	10.2	0.390	11.1	NA	NA	6.08%	11.0
Standard Deviation for Longnose Dace			0.651	1.65	0.110	3.12	NA	NA	1.37%	2.25
Coefficient of Variation for Longnose Dace			0.204	0.204	0.465	0.465	NA	NA	0.299	0.264
Distribution for Longnose Dace			Normal							
Upper 95% UCL for Longnose Dace			3.64	9.24	0.312	8.86	NA	NA	5.54%	10.0

Distribution of PCB results determined using ProUCL, Version 4.00.02.

FISH SAMPLE RESULTS - MIDDLE RIVER SITE 2 (MR2)

Sample ID, Collection Date	*Sample Type*	*Sample Form*	*Length (in)*	*Length (cm)*	*Weight (ounces)*	*Weight (grams)*	*Gender (M/F)*	*Age (Yr)* [1]	*Fat (%)*	*PCB (mg/kg)*
BL-MR2-CC1-G, 9/8/08	Channel Catfish	SOF	19.0	48.3	42.0	1191	F	7	4.21%	6.90
BL-MR2-CC2-G, 9/15/08			22.0	55.9	109	3090	M	7	6.01%	8.68
BL-MR2-CC3-G, 9/15/08			22.0	55.9	73.0	2070	M	6	3.45%	16.6
BL-MR2-CC4-G, 9/15/08			17.0	43.2	24.0	680	F	5	3.49%	0.532
Mean Result for Channel Catfish			20.0	50.8	62.0	1758	NA	6.25	4.29%	8.18
Minimum Results for Channel Catfish			17.0	43.2	24.0	680	NA	5.00	3.45%	0.532
Maximum Results for Channel Catfish			22.0	55.9	109	3090	NA	7.00	6.01%	16.6
Standard Deviation for Channel Catfish			2.45	6.22	37.3	1057	NA	0.957	1.20%	6.62
Coefficient of Variation for Channel Catfish			0.122	0.122	0.602	0.602	NA	0.153	0.280	0.809
Distribution for Channel Catfish			To few samples to determine**							
Upper 95% UCL for Channel Catfish			22.4	56.9	98.6	2794	NA	7.19	5.46%	14.7

NA - Not applicable
TS - Too small to gender/age
SO - Scale off, skin on fillet
SOF - Skin off fillet
W - Whole fish

** ProUCL could not determine. Based on the coefficient of variation being less than 1.0 and the majority of other data being normal, it was assumed to be normal and 95% UCL was determined accordingly.

[1] Where fish ages were in between ages, a half age was applied for the calculations. For example: 4/5 would be 4.5 years.

Distribution of PCB results determined using ProUCL, Version 4.00.02.

LOWER RIVER

FISH SAMPLE RESULTS - LOWER RIVER

Sample ID, Collection Date	*Sample Type*	*Sample Form*	*Length (in)*	*Length (cm)*	*Weight (ounces)*	*Weight (grams)*	*Gender (M/F)*	*Age (Yr)* [1]	*Fat (%)*	*PCB (mg/kg)*
BL-LR-AC1-G, 8/25/08	Adult Carp	SO	17.5	44.5	32.0	907	M	4/5	2.46%	2.52
BL-LR-AC2-G, 8/25/08			24.5	62.2	112	3175	M	7/8	2.69%	15.7
BL-LR-AC3-G, 9/3/08			21.0	53.3	77.0	2183	F	6	5.51%	0.458
BL-LR-AC4-G, 9/3/08			17.5	44.5	44.0	1247	M	4/5	9.03%	44.9
BL-LR-AC5-G, 9/3/08			24.0	61.0	115	3260	M	7	6.40%	18.4
BL-LR-AC6-G, 9/3/08			24.0	61.0	111	3147	F	7	3.63%	4.46
BL-LR-AC7-G, 9/3/08			18.0	45.7	46.0	1304	M	5	0.825%	1.97
BL-LR-AC8-G, 9/3/08			19.5	49.5	60.0	1701	M	5/6	1.07%	1.89
Mean Result for Adult Carp			20.8	52.7	74.6	2116	NA	5.9	3.95%	11.3
Minimum Results for Adult Carp			17.5	44.5	32.0	907	NA	4.50	0.825%	0.458
Maximum Results for Adult Carp			24.5	62.2	115	3260	NA	7.50	9.03%	44.9
Standard Deviation for Adult Carp			3.06	7.76	34.1	967	NA	1.19	2.83%	15.2
Coefficient of Variation for Adult Carp			0.147	0.147	0.457	0.457	NA	0.202	0.717	1.35
Distribution for Adult Carp			Lognormal							
Upper 95% UCL for Adult Carp			22.9	58.1	98	2786	NA	6.70	5.91%	32.6

BL-LR-AWS1-G, 8/25/08	Adult White Sucker	SO	12.5	31.8	14.0	397	M	3	1.03%	4.96
BL-LR-AWS2-G, 8/25/08			13.5	34.3	16.0	454	M	3	0.705%	3.65
Mean Result for Adult White Sucker			13.0	33.0	15.0	425	NA	3.00	0.865%	4.31
Minimum Results for Adult White Sucker			12.5	31.8	14.0	397	NA	3.00	0.705%	3.65
Maximum Results for Adult White Sucker			13.5	34.3	16.0	454	NA	3.00	1.03%	4.96
Standard Deviation for Adult White Sucker			0.707	1.80	1.41	40.1	NA	0.00	0.226%	0.926
Coefficient of Variation for Adult White Sucker			0.054	0.054	0.094	0.094	NA	0.00	0.262	0.215
Distribution for Adult White Sucker			To few samples to determine							
Upper 95% UCL for Adult White Sucker			To few samples to determine							

Distribution of PCB results determined using ProUCL, Version 4.00.02.

FISH SAMPLE RESULTS - LOWER RIVER

Sample ID, Collection Date	*Sample Type*	*Sample Form*	*Length (in)*	*Length (cm)*	*Weight (ounces)*	*Weight (grams)*	*Gender (M/F)*	*Age (Yr)* [1]	*Fat (%)*	*PCB (mg/kg)*
BL-LR-JWS1-G, 8/25/08	Juvenile White Sucker	SO	7.00	17.8	2.00	56.7	M	1	0.140%	1.27
BL-LR-JWS2-G, 8/26/08			8.00	20.3	3.00	85.0	M	1	0.205%	1.64
BL-LR-JWS3-G, 8/26/08			6.50	16.5	2.00	56.7	M	1	0.245%	0.713
BL-LR-JWS4-G, 8/26/08			5.00	12.7	2.00	56.7	M	1	0.094%	0.587
BL-LR-JWS5-G, 9/3/08			7.00	17.8	2.00	56.7	M	2	0.405%	0.967
Mean Result for Juvenile White Sucker			6.70	17.0	2.20	62.4	NA	1.20	0.218%	1.04
Minimum Results for Juvenile White Sucker			5.00	12.7	2.00	56.7	NA	1.00	0.094%	0.587
Maximum Results for Juvenile White Sucker			8.00	20.3	3.00	85.0	NA	2.00	0.405%	1.64
Standard Deviation for Juvenile White Sucker			1.10	2.78	0.447	12.7	NA	0.447	0.120%	0.427
Coefficient of Variation for Juvenile White Sucker			0.163	0.163	0.203	0.203	NA	0.373	0.550	0.413
Distribution for Juvenile White Sucker			Normal							
Upper 95% UCL for Juvenile White Sucker			7.66	19.5	2.59	73.5	NA	1.59	0.323%	1.44

BL-LR-SB1-G, 8/25/08	Smallmouth Bass	SO	10.0	25.4	8.00	227	M	3	1.19%	8.17
BL-LR-SB2-G, 8/25/08			10.5	26.7	9.00	255	F	3/4	0.380%	5.14
BL-LR-SB3-G, 8/25/08			13.0	33.0	25.0	709	M	5	0.650%	2.02
BL-LR-SB4-G, 8/25/08			10.0	25.4	9.00	255	F	3	0.685%	1.78
BL-LR-SB5-G, 8/25/08			12.0	30.5	15.0	425	F	3/4	1.50%	7.01
BL-LR-SB6-G, 8/25/08			11.0	27.9	11.0	312	M	4	0.915%	4.84
BL-LR-SB7-G, 8/25/08			12.0	30.5	17.0	482	M	5	2.13%	10.9
BL-LR-SB8-G, 8/25/08			10.5	26.7	9.00	255	M	3	1.05%	6.30
Mean Result for Smallmouth Bass			11.1	28.3	12.9	365	NA	3.75	1.06%	5.77
Minimum Results for Smallmouth Bass			10.0	25.4	8.00	227	NA	3.00	0.380%	1.78
Maximum Results for Smallmouth Bass			13.0	33.0	25.0	709	NA	5.00	2.13%	10.9
Standard Deviation for Smallmouth Bass			1.09	2.78	5.87	166	NA	0.845	0.552%	3.05
Coefficient of Variation for Smallmouth Bass			0.098	0.098	0.456	0.456	NA	0.225	0.520	0.529
Distribution for Smallmouth Bass			Normal							
Upper 95% UCL for Smallmouth Bass			11.9	30.2	16.9	480	NA	4.34	1.44%	7.81

Distribution of PCB results determined using ProUCL, Version 4.00.02.

FISH SAMPLE RESULTS - LOWER RIVER

Sample ID, Collection Date	*Sample Type*	*Sample Form*	*Length (in)*	*Length (cm)*	*Weight (ounces)*	*Weight (grams)*	*Gender (M/F)*	*Age (Yr)* [1]	*Fat (%)*	*PCB (mg/kg)*
BL-LR-RB1-G, 8/26/08	Rock Bass	SO	7.00	17.8	4.00	113	M	3/4	0.510%	1.76
BL-LR-RB2-G, 8/26/08			6.50	16.5	4.00	113	M	3	0.410%	1.95
BL-LR-RB3-G, 8/26/08			5.50	14.0	3.00	85.0	M	3	0.283%	1.40
BL-LR-RB4-G, 8/26/08			5.00	12.7	2.00	56.7	M	2	0.982%	4.11
BL-LR-RB5-G, 8/26/08			6.50	16.5	4.00	113	M	3	0.980%	3.33
BL-LR-RB6-G, 8/26/08			6.50	16.5	4.00	113	M	3	0.445%	1.84
BL-LR-RB7-G, 8/26/08			6.00	15.2	3.00	85.0	M	3	0.393%	1.63
BL-LR-RB8-G, 8/26/08			7.00	17.8	4.00	113	M	3	0.915%	4.27
BL-LR-RB9-G, 8/26/08			6.50	16.5	4.00	113	M	3	0.300%	3.07
Mean Result for Rock Bass			6.28	15.9	3.56	101	NA	2.94	0.580%	2.60
Minimum Results for Rock Bass			5.00	12.7	2.00	56.7	NA	2.00	0.283%	1.40
Maximum Results for Rock Bass			7.00	17.8	4.00	113	NA	3.50	0.982%	4.27
Standard Deviation for Rock Bass			0.667	1.69	0.726	20.6	NA	0.391	0.293%	1.11
Coefficient of Variation for Rock Bass			0.106	0.106	0.204	0.204	NA	0.133	0.506	0.429
Distribution for Rock Bass			Normal							
Upper 95% UCL for Rock Bass			6.71	17.1	4.03	114	NA	3.20	0.771%	3.29

Distribution of PCB results determined using ProUCL, Version 4.00.02.

FISH SAMPLE RESULTS - LOWER RIVER

Sample ID, Collection Date	*Sample Type*	*Sample Form*	*Length (in)*	*Length (cm)*	*Weight (ounces)*	*Weight (grams)*	*Gender (M/F)*	*Age (Yr)* [1]	*Fat (%)*	*PCB (mg/kg)*
BL-LR-CC1-G, 8/25/08	Channel Catfish	SOF	19.0	48.3	44.0	1247	M	6	4.11%	8.49
BL-LR-CC2-G, 8/25/08			21.0	53.3	55.0	1559	M	7	4.34%	11.7
BL-LR-CC3-G, 8/25/08			20.0	50.8	58.0	1644	M	6	4.98%	6.37
BL-LR-CC4-G, 8/25/08			17.0	43.2	34.0	964	M	6	7.81%	28.4
Mean Result for Channel Catfish			19.3	48.9	47.8	1354	NA	6.25	5.31%	13.7
Minimum Results for Channel Catfish			17.0	43.2	34.0	964	NA	6.00	4.11%	6.37
Maximum Results for Channel Catfish			21.0	53.3	58.0	1644	NA	7.00	7.81%	28.4
Standard Deviation for Channel Catfish			1.71	4.33	11.0	311	NA	0.500	1.71%	10.0
Coefficient of Variation for Channel Catfish			0.089	0.089	0.230	0.230	NA	0.080	0.322	0.729
Distribution for Channel Catfish			To few samples to determine**							
Upper 95% UCL for Channel Catfish			20.9	53.1	58.5	1658	NA	6.74	6.98%	25.1

NA - Not applicable
SO - Scale off, skin on fillet
SOF - Skin off fillet
W - Whole fish

** ProUCL could not determine. Based on the coefficient of variation being less than 1.0 and the majority of other data being normal, it was assumed to be normal and 95% UCL was determined accordingly.

[1] Where fish ages were in between ages, a half age was applied for the calculations. For example: 4/5 would be 4.5 years.

INNER HARBOR

FISH SAMPLE RESULTS - INNER HARBOR

Sample ID, Collection Date	*Sample Type*	*Sample Form*	*Length (in)*	*Length (cm)*	*Weight (ounces)*	*Weight (grams)*	*Gender (M/F)*	*Age (Yr)* [1]	*Fat (%)*	*PCB (mg/kg)*
BL-IH-AC1-G, 8/27/08	Adult Carp	SO	21.0	53.3	69.0	1956	M	6	3.83%	9.14
BL-IH-AC2-G, 8/27/08			23.0	58.4	112	3175	M	7	1.91%	3.21
BL-IH-AC3-G, 8/27/08			16.5	41.9	36.0	1021	F	5	2.52%	2.46
BL-IH-AC4-G, 8/27/08			17.0	43.2	37.0	1049	F	4	3.03%	5.02
BL-IH-AC5-G, 8/27/08			18.5	47.0	58.0	1644	M	5	4.04%	2.30
BL-IH-AC6-G, 8/27/08			16.5	41.9	36.0	1021	F	4/5	4.06%	2.05
BL-IH-AC7-G, 8/27/08			18.5	47.0	47.0	1332	M	5	1.29%	0.890
BL-IH-AC8-G, 8/27/08			19.0	48.3	53.0	1503	F	5	0.630%	0.243
Mean Result for Adult Carp			18.8	47.6	56.0	1588	NA	5.19	2.66%	3.16
Minimum Results for Adult Carp			16.5	41.9	36.0	1021	NA	4.00	0.630%	0.243
Maximum Results for Adult Carp			23.0	58.4	112	3175	NA	7.00	4.06%	9.14
Standard Deviation for Adult Carp			2.28	5.79	25.5	724	NA	0.923	1.31%	2.81
Coefficient of Variation for Adult Carp			0.122	0.122	0.456	0.456	NA	0.178	0.491	0.889
Distribution for Adult Carp			Normal							
Upper 95% UCL for Adult Carp			20.33	51.64	73.69	2089	NA	5.83	3.57%	5.05

BL-IH-SB1-G, 8/27/08	Smallmouth Bass	SO	15.0	38.1	31.0	879	M	6	0.680%	1.44
BL-IH-SB2-G, 8/27/08			14.0	35.6	26.0	737	F	5/6	0.855%	2.70
BL-IH-SB3-G, 8/27/08			12.0	30.5	16.0	454	M	4	0.935%	4.43
BL-IH-SB4-G, 8/27/08			13.0	33.0	18.0	510	F	4	1.00%	3.10
BL-IH-SB5-G, 8/27/08			11.5	29.2	14.0	397	F	3	0.980%	4.18
BL-IH-SB6-G, 8/27/08			11.0	27.9	13.0	369	F	3	1.13%	4.31
BL-IH-SB7-G, 8/27/08			14.0	35.6	25.0	709	F	5	1.58%	3.91
BL-IH-SB8-G, 9/2/08			17.0	43.2	46.0	1304	M	7/8	1.77%	2.83
Mean Result for Smallmouth Bass			13.4	34.1	23.6	670	NA	4.75	1.12%	3.36
Minimum Results for Smallmouth Bass			11.0	27.9	13.0	369	NA	3.00	0.680%	1.44
Maximum Results for Smallmouth Bass			17.0	43.2	46.0	1304	NA	7.50	1.77%	4.43
Standard Deviation for Smallmouth Bass			1.99	5.05	11.1	314	NA	1.56	0.369%	1.04
Coefficient of Variation for Smallmouth Bass			0.148	0.148	0.469	0.469	NA	0.328	0.331	0.308
Distribution for Smallmouth Bass			Normal							
Upper 95% UCL for Smallmouth Bass			14.82	37.63	31.30	887	NA	5.83	1.37%	4.06

Distribution of PCB results determined using ProUCL, Version 4.00.02.

FISH SAMPLE RESULTS - INNER HARBOR

Sample ID, Collection Date	*Sample Type*	*Sample Form*	*Length (in)*	*Length (cm)*	*Weight (ounces)*	*Weight (grams)*	*Gender (M/F)*	*Age (Yr)* [1]	*Fat (%)*	*PCB (mg/kg)*
BL-IH-CC1-G, 9/2/08	Channel Catfish	SOF	20.5	52.1	54.0	1531	M	6	12.16%	19.4
Mean Result for Channel Catfish			20.5	52.1	54.0	1531	NA	NA	12.16%	19.4
Minimum Results for Channel Catfish			20.5	52.1	54.0	1531	NA	NA	12.16%	19.4
Maximum Results for Channel Catfish			20.5	52.1	54.0	1531	NA	NA	12.16%	19.4
Standard Deviation for Channel Catfish			NA	NA	NA	NA	NA	NA	NA	NA
Coefficient of Variation for Channel Catfish			NA	NA	NA	NA	NA	NA	NA	NA
Distribution for Channel Catfish			NA	NA	NA	NA	NA	NA	NA	NA
Upper 95% UCL for Channel Catfish			NA	NA	NA	NA	NA	NA	NA	NA
BL-IH-W1-G, 8/27/08	Walleye	SO	21.0	53.3	79.0	2240	M	6	3.71%	3.00
BL-IH-W2-G, 9/5/08			21.0	53.3	72.0	2041	M	5/6	2.71%	1.36
BL-IH-W3-G, 9/5/08			22.0	55.9	81.0	2296	M	6	1.72%	1.74
Mean Result for Walleye			21.3	54.2	77.3	2192	NA	5.83	2.71%	2.03
Minimum Results for Walleye			21.0	53.3	72.0	2041	NA	5.50	1.72%	1.36
Maximum Results for Walleye			22.0	55.9	81.0	2296	NA	6.00	3.71%	3.00
Standard Deviation for Walleye			0.577	1.47	4.73	134	NA	0.289	1.00%	0.857
Coefficient of Variation for Walleye			0.027	0.027	0.061	0.061	NA	0.049	0.367	0.422
Distribution for Walleye			To few samples to determine**							
Upper 95% UCL for Walleye			21.99	55.85	82.68	2343.96	NA	6.16	3.84%	3.00

NA - Not applicable
SO - Scale off, skin on fillet
SOF - Skin off fillet
W - Whole fish

** ProUCL could not determine. Based on the coefficient of variation being less than 1.0 and the majority of other data being normal, it was assumed to be normal and 95% UCL was determined accordingly.

[1] Where fish ages were in between ages, a half age was applied for the calculations. For example: 4/5 would be 4.5 years.

Distribution of PCB results determined using ProUCL, Version 4.00.02.

Appendix 2

Appendix 2

Laboratory Analytical Reports

Baseline Upper and Lower River Fish Monitoring Report
Appendix 2
Laboratory Analytical Reports
CD Contents

Report Date	Lab Report # (CD Link)	Sample Locations
08/26/08	408210	Upper River 1
08/26/08	408211	Upper River 1 & 2
08/28/08	408330	Upper River 2
08/28/08	408328	Upper River 2, Lower River
09/03/08	408460	Lower River, Inner Harbor
09/05/08	408619	Lower River, Inner Harbor
09/09/08	408719	Upper River 1 & 2, Inner Harbor
09/09/08	408721	Upper River 2, Middle River 2
09/11/08	408870	Middle River 2
09/18/08	409156	Upper River 1, Middle River 1 & 2
09/18/08	409155	Middle River 1 & 2
09/19/08	409244	Middle River 1
09/19/08	409245	Upper River 1, Middle River 1

Note: Click on blue CD link to access the report in a new window.

Pace Analytical Services, Inc.
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(920)469-2436

October 15, 2008

BRANDY PROFFITT
POLLUTION RISK SERVICES
7870 EAST KEMPER ROAD
SUITE 240
Cincinnati, OH 45249

RE: Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 408460

Dear BRANDY PROFFITT:
Enclosed are the analytical results for sample(s) received by the laboratory on September 03, 2008. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Tod Noltemeyer

Tod Noltemeyer

tod.noltemeyer@pacelabs.com
Project Manager

Enclosures

REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 408460

Green Bay Certification IDs

Louisiana Certification #: 04169
Louisiana Certification #: 04168
Kentucky Certification #: 83
Kentucky Certification #: 82
Wisconsin DATCP Certification #: 105-444
Wisconsin DATCP Certification #: 105-444
Wisconsin Certification #: 405132750
Wisconsin Certification #: 405132750
South Carolina Certification #: 83006001
South Carolina Certification #: 83006001
Minnesota Certification #: 055-999-334
Minnesota Certification #: 055-999-334
North Carolina Certification #: 503
North Carolina Certification #: 503
North Dakota Certification #: R-200
North Dakota Certification #: R-150
New York Certification #: 11888
New York Certification #: 11887
Illinois Certification #: 200051
Illinois Certification #: 200050
Florida (NELAP) Certification #: E87951
Florida (NELAP) Certification #: E87948

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SAMPLE SUMMARY

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 408460

Lab ID	Sample ID	Matrix	Date Collected	Date Received
408460001	BL-LR-RB1-G, 8/26/08	Tissue	08/26/08 00:00	09/03/08 15:40
408460002	BL-LR-RB2-G, 8/26/08	Tissue	08/26/08 00:00	09/03/08 15:40
408460003	BL-LR-RB3-G, 8/26/08	Tissue	08/26/08 00:00	09/03/08 15:40
408460004	BL-LR-RB4-G, 8/26/08	Tissue	08/26/08 00:00	09/03/08 15:40
408460005	BL-LR-RB5-G, 8/26/08	Tissue	08/26/08 00:00	09/03/08 15:40
408460006	BL-LR-RB6-G, 8/26/08	Tissue	08/26/08 00:00	09/03/08 15:40
408460007	BL-LR-RB7-G, 8/26/08	Tissue	08/26/08 00:00	09/03/08 15:40
408460008	BL-LR-JWS2-G, 8/26/08	Tissue	08/26/08 00:00	09/03/08 15:40
408460009	BL-LR-JWS3-G, 8/26/08	Tissue	08/26/08 00:00	09/03/08 15:40
408460010	BL-LR-JWS4-G, 8/26/08	Tissue	08/26/08 00:00	09/03/08 15:40
408460011	BL-LR-RB8-G, 8/26/08	Tissue	08/26/08 00:00	09/03/08 15:40
408460012	BL-LR-RB9-G, 8/26/08	Tissue	08/26/08 00:00	09/03/08 15:40
408460013	BL-IH-SB1-G, 8/27/08	Tissue	08/27/08 00:00	09/03/08 15:40
408460014	BL-IH-SB2-G, 8/27/08	Tissue	08/27/08 00:00	09/03/08 15:40
408460015	BL-IH-SB3-G, 8/27/08	Tissue	08/27/08 00:00	09/03/08 15:40
408460016	BL-IH-SB4-G, 8/27/08	Tissue	08/27/08 00:00	09/03/08 15:40
408460017	BL-IH-SB5-G, 8/27/08	Tissue	08/27/08 00:00	09/03/08 15:40
408460018	BL-IH-W1-G, 8/27/08	Tissue	08/27/08 00:00	09/03/08 15:40
408460019	BL-IH-AC1-G, 8/27/08	Tissue	08/27/08 00:00	09/03/08 15:40
408460020	BL-IH-AC2-G, 8/27/08	Tissue	08/27/08 00:00	09/03/08 15:40

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SAMPLE ANALYTE COUNT

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 408460

Lab ID	Sample ID	Method	Analysts	Analytes Reported
408460001	BL-LR-RB1-G, 8/26/08	EPA 8082	CAH	10
		Pace Lipid	DAL	1
408460002	BL-LR-RB2-G, 8/26/08	EPA 8082	CAH	10
		Pace Lipid	DAL	1
408460003	BL-LR-RB3-G, 8/26/08	EPA 8082	CAH	10
		Pace Lipid	DAL	1
408460004	BL-LR-RB4-G, 8/26/08	EPA 8082	CAH	10
		Pace Lipid	DAL	1
408460005	BL-LR-RB5-G, 8/26/08	EPA 8082	CAH	10
		Pace Lipid	DAL	1
408460006	BL-LR-RB6-G, 8/26/08	EPA 8082	CAH	10
		Pace Lipid	DAL	1
408460007	BL-LR-RB7-G, 8/26/08	EPA 8082	CAH	10
		Pace Lipid	DAL	1
408460008	BL-LR-JWS2-G, 8/26/08	EPA 8082	CAH	10
		Pace Lipid	DAL	1
408460009	BL-LR-JWS3-G, 8/26/08	EPA 8082	CAH	10
		Pace Lipid	DAL	1
408460010	BL-LR-JWS4-G, 8/26/08	EPA 8082	CAH	10
		Pace Lipid	DAL	1
408460011	BL-LR-RB8-G, 8/26/08	EPA 8082	CAH	10
		Pace Lipid	DAL	1
408460012	BL-LR-RB9-G, 8/26/08	EPA 8082	CAH	10
		Pace Lipid	DAL	1
408460013	BL-IH-SB1-G, 8/27/08	EPA 8082	CAH	10
		Pace Lipid	DAL	1
408460014	BL-IH-SB2-G, 8/27/08	EPA 8082	CAH	10
		Pace Lipid	DAL	1
408460015	BL-IH-SB3-G, 8/27/08	EPA 8082	CAH	10
		Pace Lipid	DAL	1
408460016	BL-IH-SB4-G, 8/27/08	EPA 8082	CAH	10
		Pace Lipid	DAL	1
408460017	BL-IH-SB5-G, 8/27/08	EPA 8082	CAH	10
		Pace Lipid	DAL	1
408460018	BL-IH-W1-G, 8/27/08	EPA 8082	CAH	10
		Pace Lipid	DAL	1
408460019	BL-IH-AC1-G, 8/27/08	EPA 8082	CAH	10

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SAMPLE ANALYTE COUNT

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 408460

Lab ID	Sample ID	Method	Analysts	Analytes Reported
		Pace Lipid	DAL	1
408460020	**BL-IH-AC2-G, 8/27/08**	EPA 8082	CAH	10
		Pace Lipid	DAL	1

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PROJECT NARRATIVE

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 408460

Method: **EPA 8082**
Description: 8082 GCS PCBs, Tissue
Client: POLLUTION RISK SERVICES
Date: October 15, 2008

General Information:
20 samples were analyzed for EPA 8082. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 3540 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

QC Batch: OEXT/2722

S4: Surrogate recovery not evaluated against control limits due to sample dilution.

- BL-IH-AC1-G, 8/27/08 (Lab ID: 408460019)
  - Decachlorobiphenyl (S)
  - Tetrachloro-m-xylene (S)
- MS (Lab ID: 79347)
  - Decachlorobiphenyl (S)
  - Tetrachloro-m-xylene (S)
- MSD (Lab ID: 79348)
  - Decachlorobiphenyl (S)
  - Tetrachloro-m-xylene (S)

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 408460

Method: **Pace Lipid**
Description: Lipid
Client: POLLUTION RISK SERVICES
Date: October 15, 2008

General Information:
20 samples were analyzed for Pace Lipid. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

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ANALYTICAL RESULTS

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 408460

Sample: BL-LR-RB1-G, 8/26/08 **Lab ID: 408460001** Collected: 08/26/08 00:00 Received: 09/03/08 15:40 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCBs, Tissue	Analytical Method: EPA 8082 Preparation Method: EPA 3540								
PCB-1016 (Aroclor 1016)	**<95.0**	ug/kg	250	95.0	5	09/21/08 15:40	09/30/08 06:52	12674-11-2	
PCB-1221 (Aroclor 1221)	**<95.0**	ug/kg	250	95.0	5	09/21/08 15:40	09/30/08 06:52	11104-28-2	
PCB-1232 (Aroclor 1232)	**<95.0**	ug/kg	250	95.0	5	09/21/08 15:40	09/30/08 06:52	11141-16-5	
PCB-1242 (Aroclor 1242)	**<95.0**	ug/kg	250	95.0	5	09/21/08 15:40	09/30/08 06:52	53469-21-9	
PCB-1248 (Aroclor 1248)	**844**	ug/kg	250	95.0	5	09/21/08 15:40	09/30/08 06:52	12672-29-6	
PCB-1254 (Aroclor 1254)	**820**	ug/kg	250	95.0	5	09/21/08 15:40	09/30/08 06:52	11097-69-1	
PCB-1260 (Aroclor 1260)	**99.9J**	ug/kg	250	95.0	5	09/21/08 15:40	09/30/08 06:52	11096-82-5	
PCB, Total	**1760**	ug/kg	250	95.0	5	09/21/08 15:40	09/30/08 06:52	1336-36-3	
Tetrachloro-m-xylene (S)	91	%	40-136		5	09/21/08 15:40	09/30/08 06:52	877-09-8	
Decachlorobiphenyl (S)	103	%	47-145		5	09/21/08 15:40	09/30/08 06:52	2051-24-3	
Lipid	Analytical Method: Pace Lipid								
Lipid	**0.51**	%		0.10	1		09/24/08 07:13		

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ANALYTICAL RESULTS

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 408460

Sample: BL-LR-RB2-G, 8/26/08 **Lab ID: 408460002** Collected: 08/26/08 00:00 Received: 09/03/08 15:40 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCBs, Tissue	Analytical Method: EPA 8082 Preparation Method: EPA 3540								
PCB-1016 (Aroclor 1016)	**<95.0**	ug/kg	250	95.0	5	09/21/08 15:40	09/30/08 07:17	12674-11-2	
PCB-1221 (Aroclor 1221)	**<95.0**	ug/kg	250	95.0	5	09/21/08 15:40	09/30/08 07:17	11104-28-2	
PCB-1232 (Aroclor 1232)	**<95.0**	ug/kg	250	95.0	5	09/21/08 15:40	09/30/08 07:17	11141-16-5	
PCB-1242 (Aroclor 1242)	**<95.0**	ug/kg	250	95.0	5	09/21/08 15:40	09/30/08 07:17	53469-21-9	
PCB-1248 (Aroclor 1248)	**925**	ug/kg	250	95.0	5	09/21/08 15:40	09/30/08 07:17	12672-29-6	
PCB-1254 (Aroclor 1254)	**917**	ug/kg	250	95.0	5	09/21/08 15:40	09/30/08 07:17	11097-69-1	
PCB-1260 (Aroclor 1260)	**104J**	ug/kg	250	95.0	5	09/21/08 15:40	09/30/08 07:17	11096-82-5	
PCB, Total	**1950**	ug/kg	250	95.0	5	09/21/08 15:40	09/30/08 07:17	1336-36-3	
Tetrachloro-m-xylene (S)	90	%	40-136		5	09/21/08 15:40	09/30/08 07:17	877-09-8	
Decachlorobiphenyl (S)	105	%	47-145		5	09/21/08 15:40	09/30/08 07:17	2051-24-3	
Lipid	Analytical Method: Pace Lipid								
Lipid	**0.41**	%		0.10	1		09/24/08 07:13		

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ANALYTICAL RESULTS

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 408460

Sample: BL-LR-RB3-G, 8/26/08 **Lab ID: 408460003** Collected: 08/26/08 00:00 Received: 09/03/08 15:40 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCBs, Tissue	Analytical Method: EPA 8082 Preparation Method: EPA 3540								
PCB-1016 (Aroclor 1016)	**<84.8**	ug/kg	223	84.8	3	09/21/08 15:40	09/30/08 07:43	12674-11-2	
PCB-1221 (Aroclor 1221)	**<84.8**	ug/kg	223	84.8	3	09/21/08 15:40	09/30/08 07:43	11104-28-2	
PCB-1232 (Aroclor 1232)	**<84.8**	ug/kg	223	84.8	3	09/21/08 15:40	09/30/08 07:43	11141-16-5	
PCB-1242 (Aroclor 1242)	**<84.8**	ug/kg	223	84.8	3	09/21/08 15:40	09/30/08 07:43	53469-21-9	
PCB-1248 (Aroclor 1248)	**712**	ug/kg	223	84.8	3	09/21/08 15:40	09/30/08 07:43	12672-29-6	
PCB-1254 (Aroclor 1254)	**686**	ug/kg	223	84.8	3	09/21/08 15:40	09/30/08 07:43	11097-69-1	
PCB-1260 (Aroclor 1260)	**<84.8**	ug/kg	223	84.8	3	09/21/08 15:40	09/30/08 07:43	11096-82-5	
PCB, Total	**1400**	ug/kg	223	84.8	3	09/21/08 15:40	09/30/08 07:43	1336-36-3	
Tetrachloro-m-xylene (S)	88	%	40-136		3	09/21/08 15:40	09/30/08 07:43	877-09-8	
Decachlorobiphenyl (S)	103	%	47-145		3	09/21/08 15:40	09/30/08 07:43	2051-24-3	
Lipid	Analytical Method: Pace Lipid								
Lipid	**0.28**	%		0.10	1		09/24/08 07:13		

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ANALYTICAL RESULTS

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 408460

Sample: BL-LR-RB4-G, 8/26/08 **Lab ID: 408460004** Collected: 08/26/08 00:00 Received: 09/03/08 15:40 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCBs, Tissue	Analytical Method: EPA 8082 Preparation Method: EPA 3540								
PCB-1016 (Aroclor 1016)	**<158**	ug/kg	416	158	5	09/21/08 15:40	09/30/08 08:09	12674-11-2	
PCB-1221 (Aroclor 1221)	**<158**	ug/kg	416	158	5	09/21/08 15:40	09/30/08 08:09	11104-28-2	
PCB-1232 (Aroclor 1232)	**<158**	ug/kg	416	158	5	09/21/08 15:40	09/30/08 08:09	11141-16-5	
PCB-1242 (Aroclor 1242)	**<158**	ug/kg	416	158	5	09/21/08 15:40	09/30/08 08:09	53469-21-9	
PCB-1248 (Aroclor 1248)	**2060**	ug/kg	416	158	5	09/21/08 15:40	09/30/08 08:09	12672-29-6	
PCB-1254 (Aroclor 1254)	**1850**	ug/kg	416	158	5	09/21/08 15:40	09/30/08 08:09	11097-69-1	
PCB-1260 (Aroclor 1260)	**194J**	ug/kg	416	158	5	09/21/08 15:40	09/30/08 08:09	11096-82-5	
PCB, Total	**4110**	ug/kg	416	158	5	09/21/08 15:40	09/30/08 08:09	1336-36-3	
Tetrachloro-m-xylene (S)	102	%	40-136		5	09/21/08 15:40	09/30/08 08:09	877-09-8	
Decachlorobiphenyl (S)	117	%	47-145		5	09/21/08 15:40	09/30/08 08:09	2051-24-3	
Lipid	Analytical Method: Pace Lipid								
Lipid	**0.98**	%		0.10	1		09/24/08 07:14		

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ANALYTICAL RESULTS

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 408460

Sample: BL-LR-RB5-G, 8/26/08 **Lab ID: 408460005** Collected: 08/26/08 00:00 Received: 09/03/08 15:40 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCBs, Tissue	Analytical Method: EPA 8082 Preparation Method: EPA 3540								
PCB-1016 (Aroclor 1016)	**<190**	ug/kg	500	190	10	09/21/08 15:40	09/30/08 08:34	12674-11-2	
PCB-1221 (Aroclor 1221)	**<190**	ug/kg	500	190	10	09/21/08 15:40	09/30/08 08:34	11104-28-2	
PCB-1232 (Aroclor 1232)	**<190**	ug/kg	500	190	10	09/21/08 15:40	09/30/08 08:34	11141-16-5	
PCB-1242 (Aroclor 1242)	**<190**	ug/kg	500	190	10	09/21/08 15:40	09/30/08 08:34	53469-21-9	
PCB-1248 (Aroclor 1248)	**1700**	ug/kg	500	190	10	09/21/08 15:40	09/30/08 08:34	12672-29-6	
PCB-1254 (Aroclor 1254)	**1630**	ug/kg	500	190	10	09/21/08 15:40	09/30/08 08:34	11097-69-1	
PCB-1260 (Aroclor 1260)	**<190**	ug/kg	500	190	10	09/21/08 15:40	09/30/08 08:34	11096-82-5	
PCB, Total	**3330**	ug/kg	500	190	10	09/21/08 15:40	09/30/08 08:34	1336-36-3	
Tetrachloro-m-xylene (S)	90	%	40-136		10	09/21/08 15:40	09/30/08 08:34	877-09-8	
Decachlorobiphenyl (S)	110	%	47-145		10	09/21/08 15:40	09/30/08 08:34	2051-24-3	
Lipid	Analytical Method: Pace Lipid								
Lipid	**0.98**	%		0.10	1		09/24/08 07:15		

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ANALYTICAL RESULTS

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 408460

Sample: BL-LR-RB6-G, 8/26/08 **Lab ID: 408460006** Collected: 08/26/08 00:00 Received: 09/03/08 15:40 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCBs, Tissue	Analytical Method: EPA 8082 Preparation Method: EPA 3540								
PCB-1016 (Aroclor 1016)	**<95.0**	ug/kg	250	95.0	5	09/21/08 15:40	09/30/08 09:00	12674-11-2	
PCB-1221 (Aroclor 1221)	**<95.0**	ug/kg	250	95.0	5	09/21/08 15:40	09/30/08 09:00	11104-28-2	
PCB-1232 (Aroclor 1232)	**<95.0**	ug/kg	250	95.0	5	09/21/08 15:40	09/30/08 09:00	11141-16-5	
PCB-1242 (Aroclor 1242)	**<95.0**	ug/kg	250	95.0	5	09/21/08 15:40	09/30/08 09:00	53469-21-9	
PCB-1248 (Aroclor 1248)	**946**	ug/kg	250	95.0	5	09/21/08 15:40	09/30/08 09:00	12672-29-6	
PCB-1254 (Aroclor 1254)	**899**	ug/kg	250	95.0	5	09/21/08 15:40	09/30/08 09:00	11097-69-1	
PCB-1260 (Aroclor 1260)	**<95.0**	ug/kg	250	95.0	5	09/21/08 15:40	09/30/08 09:00	11096-82-5	
PCB, Total	**1840**	ug/kg	250	95.0	5	09/21/08 15:40	09/30/08 09:00	1336-36-3	
Tetrachloro-m-xylene (S)	88	%	40-136		5	09/21/08 15:40	09/30/08 09:00	877-09-8	
Decachlorobiphenyl (S)	101	%	47-145		5	09/21/08 15:40	09/30/08 09:00	2051-24-3	
Lipid	Analytical Method: Pace Lipid								
Lipid	**0.44**	%		0.10	1		09/24/08 07:15		

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ANALYTICAL RESULTS

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 408460

Sample: BL-LR-RB7-G, 8/26/08 **Lab ID: 408460007** Collected: 08/26/08 00:00 Received: 09/03/08 15:40 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCBs, Tissue	Analytical Method: EPA 8082 Preparation Method: EPA 3540								
PCB-1016 (Aroclor 1016)	**<94.8**	ug/kg	249	94.8	4	09/21/08 15:40	09/30/08 09:26	12674-11-2	
PCB-1221 (Aroclor 1221)	**<94.8**	ug/kg	249	94.8	4	09/21/08 15:40	09/30/08 09:26	11104-28-2	
PCB-1232 (Aroclor 1232)	**<94.8**	ug/kg	249	94.8	4	09/21/08 15:40	09/30/08 09:26	11141-16-5	
PCB-1242 (Aroclor 1242)	**<94.8**	ug/kg	249	94.8	4	09/21/08 15:40	09/30/08 09:26	53469-21-9	
PCB-1248 (Aroclor 1248)	**879**	ug/kg	249	94.8	4	09/21/08 15:40	09/30/08 09:26	12672-29-6	
PCB-1254 (Aroclor 1254)	**756**	ug/kg	249	94.8	4	09/21/08 15:40	09/30/08 09:26	11097-69-1	
PCB-1260 (Aroclor 1260)	**<94.8**	ug/kg	249	94.8	4	09/21/08 15:40	09/30/08 09:26	11096-82-5	
PCB, Total	**1630**	ug/kg	249	94.8	4	09/21/08 15:40	09/30/08 09:26	1336-36-3	
Tetrachloro-m-xylene (S)	95	%	40-136		4	09/21/08 15:40	09/30/08 09:26	877-09-8	
Decachlorobiphenyl (S)	105	%	47-145		4	09/21/08 15:40	09/30/08 09:26	2051-24-3	
Lipid	Analytical Method: Pace Lipid								
Lipid	**0.39**	%		0.10	1		09/24/08 07:15		

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ANALYTICAL RESULTS

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 408460

Sample: BL-LR-JWS2-G, 8/26/08 **Lab ID: 408460008** Collected: 08/26/08 00:00 Received: 09/03/08 15:40 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCBs, Tissue	Analytical Method: EPA 8082 Preparation Method: EPA 3540								
PCB-1016 (Aroclor 1016)	**<76.0**	ug/kg	200	76.0	4	09/21/08 15:40	09/30/08 09:51	12674-11-2	
PCB-1221 (Aroclor 1221)	**<76.0**	ug/kg	200	76.0	4	09/21/08 15:40	09/30/08 09:51	11104-28-2	
PCB-1232 (Aroclor 1232)	**<76.0**	ug/kg	200	76.0	4	09/21/08 15:40	09/30/08 09:51	11141-16-5	
PCB-1242 (Aroclor 1242)	**<76.0**	ug/kg	200	76.0	4	09/21/08 15:40	09/30/08 09:51	53469-21-9	
PCB-1248 (Aroclor 1248)	**739**	ug/kg	200	76.0	4	09/21/08 15:40	09/30/08 09:51	12672-29-6	
PCB-1254 (Aroclor 1254)	**818**	ug/kg	200	76.0	4	09/21/08 15:40	09/30/08 09:51	11097-69-1	
PCB-1260 (Aroclor 1260)	**77.8J**	ug/kg	200	76.0	4	09/21/08 15:40	09/30/08 09:51	11096-82-5	
PCB, Total	**1640**	ug/kg	200	76.0	4	09/21/08 15:40	09/30/08 09:51	1336-36-3	
Tetrachloro-m-xylene (S)	99	%	40-136		4	09/21/08 15:40	09/30/08 09:51	877-09-8	
Decachlorobiphenyl (S)	111	%	47-145		4	09/21/08 15:40	09/30/08 09:51	2051-24-3	
Lipid	Analytical Method: Pace Lipid								
Lipid	**0.20**	%		0.10	1		09/24/08 07:15		

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ANALYTICAL RESULTS

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 408460

Sample: BL-LR-JWS3-G, 8/26/08 **Lab ID: 408460009** Collected: 08/26/08 00:00 Received: 09/03/08 15:40 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCBs, Tissue	Analytical Method: EPA 8082 Preparation Method: EPA 3540								
PCB-1016 (Aroclor 1016)	**<27.4**	ug/kg	72.1	27.4	1	09/21/08 15:40	09/30/08 11:09	12674-11-2	
PCB-1221 (Aroclor 1221)	**<27.4**	ug/kg	72.1	27.4	1	09/21/08 15:40	09/30/08 11:09	11104-28-2	
PCB-1232 (Aroclor 1232)	**<27.4**	ug/kg	72.1	27.4	1	09/21/08 15:40	09/30/08 11:09	11141-16-5	
PCB-1242 (Aroclor 1242)	**<27.4**	ug/kg	72.1	27.4	1	09/21/08 15:40	09/30/08 11:09	53469-21-9	
PCB-1248 (Aroclor 1248)	**418**	ug/kg	72.1	27.4	1	09/21/08 15:40	09/30/08 11:09	12672-29-6	
PCB-1254 (Aroclor 1254)	**264**	ug/kg	72.1	27.4	1	09/21/08 15:40	09/30/08 11:09	11097-69-1	
PCB-1260 (Aroclor 1260)	**31.7J**	ug/kg	72.1	27.4	1	09/21/08 15:40	09/30/08 11:09	11096-82-5	
PCB, Total	**713**	ug/kg	72.1	27.4	1	09/21/08 15:40	09/30/08 11:09	1336-36-3	
Tetrachloro-m-xylene (S)	95	%	40-136		1	09/21/08 15:40	09/30/08 11:09	877-09-8	
Decachlorobiphenyl (S)	106	%	47-145		1	09/21/08 15:40	09/30/08 11:09	2051-24-3	
Lipid	Analytical Method: Pace Lipid								
Lipid	**0.25**	%		0.10	1		09/24/08 07:16		

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ANALYTICAL RESULTS

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 408460

Sample: BL-LR-JWS4-G, 8/26/08 **Lab ID: 408460010** Collected: 08/26/08 00:00 Received: 09/03/08 15:40 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCBs, Tissue	Analytical Method: EPA 8082 Preparation Method: EPA 3540								
PCB-1016 (Aroclor 1016)	**<35.9**	ug/kg	94.4	35.9	1	09/21/08 15:40	09/30/08 11:34	12674-11-2	
PCB-1221 (Aroclor 1221)	**<35.9**	ug/kg	94.4	35.9	1	09/21/08 15:40	09/30/08 11:34	11104-28-2	
PCB-1232 (Aroclor 1232)	**<35.9**	ug/kg	94.4	35.9	1	09/21/08 15:40	09/30/08 11:34	11141-16-5	
PCB-1242 (Aroclor 1242)	**<35.9**	ug/kg	94.4	35.9	1	09/21/08 15:40	09/30/08 11:34	53469-21-9	
PCB-1248 (Aroclor 1248)	**291**	ug/kg	94.4	35.9	1	09/21/08 15:40	09/30/08 11:34	12672-29-6	
PCB-1254 (Aroclor 1254)	**296**	ug/kg	94.4	35.9	1	09/21/08 15:40	09/30/08 11:34	11097-69-1	
PCB-1260 (Aroclor 1260)	**<35.9**	ug/kg	94.4	35.9	1	09/21/08 15:40	09/30/08 11:34	11096-82-5	
PCB, Total	**587**	ug/kg	94.4	35.9	1	09/21/08 15:40	09/30/08 11:34	1336-36-3	
Tetrachloro-m-xylene (S)	90	%	40-136		1	09/21/08 15:40	09/30/08 11:34	877-09-8	
Decachlorobiphenyl (S)	105	%	47-145		1	09/21/08 15:40	09/30/08 11:34	2051-24-3	
Lipid	Analytical Method: Pace Lipid								
Lipid	**<0.10**	%		0.10	1		09/24/08 07:16		

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ANALYTICAL RESULTS

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 408460

Sample: BL-LR-RB8-G, 8/26/08 **Lab ID: 408460011** Collected: 08/26/08 00:00 Received: 09/03/08 15:40 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCBs, Tissue	Analytical Method: EPA 8082 Preparation Method: EPA 3540								
PCB-1016 (Aroclor 1016)	**<190**	ug/kg	500	190	10	09/21/08 15:40	09/30/08 12:00	12674-11-2	
PCB-1221 (Aroclor 1221)	**<190**	ug/kg	500	190	10	09/21/08 15:40	09/30/08 12:00	11104-28-2	
PCB-1232 (Aroclor 1232)	**<190**	ug/kg	500	190	10	09/21/08 15:40	09/30/08 12:00	11141-16-5	
PCB-1242 (Aroclor 1242)	**<190**	ug/kg	500	190	10	09/21/08 15:40	09/30/08 12:00	53469-21-9	
PCB-1248 (Aroclor 1248)	**2310**	ug/kg	500	190	10	09/21/08 15:40	09/30/08 12:00	12672-29-6	
PCB-1254 (Aroclor 1254)	**1760**	ug/kg	500	190	10	09/21/08 15:40	09/30/08 12:00	11097-69-1	
PCB-1260 (Aroclor 1260)	**195J**	ug/kg	500	190	10	09/21/08 15:40	09/30/08 12:00	11096-82-5	
PCB, Total	**4270**	ug/kg	500	190	10	09/21/08 15:40	09/30/08 12:00	1336-36-3	
Tetrachloro-m-xylene (S)	96	%	40-136		10	09/21/08 15:40	09/30/08 12:00	877-09-8	
Decachlorobiphenyl (S)	113	%	47-145		10	09/21/08 15:40	09/30/08 12:00	2051-24-3	
Lipid	Analytical Method: Pace Lipid								
Lipid	**0.92**	%		0.10	1		09/24/08 07:16		

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ANALYTICAL RESULTS

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 408460

Sample: BL-LR-RB9-G, 8/26/08 **Lab ID: 408460012** Collected: 08/26/08 00:00 Received: 09/03/08 15:40 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCBs, Tissue	Analytical Method: EPA 8082 Preparation Method: EPA 3540								
PCB-1016 (Aroclor 1016)	**<124**	ug/kg	327	124	5	09/21/08 15:40	09/30/08 12:26	12674-11-2	
PCB-1221 (Aroclor 1221)	**<124**	ug/kg	327	124	5	09/21/08 15:40	09/30/08 12:26	11104-28-2	
PCB-1232 (Aroclor 1232)	**<124**	ug/kg	327	124	5	09/21/08 15:40	09/30/08 12:26	11141-16-5	
PCB-1242 (Aroclor 1242)	**<124**	ug/kg	327	124	5	09/21/08 15:40	09/30/08 12:26	53469-21-9	
PCB-1248 (Aroclor 1248)	**1590**	ug/kg	327	124	5	09/21/08 15:40	09/30/08 12:26	12672-29-6	
PCB-1254 (Aroclor 1254)	**1320**	ug/kg	327	124	5	09/21/08 15:40	09/30/08 12:26	11097-69-1	
PCB-1260 (Aroclor 1260)	**167J**	ug/kg	327	124	5	09/21/08 15:40	09/30/08 12:26	11096-82-5	
PCB, Total	**3070**	ug/kg	327	124	5	09/21/08 15:40	09/30/08 12:26	1336-36-3	
Tetrachloro-m-xylene (S)	99	%	40-136		5	09/21/08 15:40	09/30/08 12:26	877-09-8	
Decachlorobiphenyl (S)	116	%	47-145		5	09/21/08 15:40	09/30/08 12:26	2051-24-3	
Lipid	Analytical Method: Pace Lipid								
Lipid	**0.30**	%		0.10	1		09/24/08 07:17		

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ANALYTICAL RESULTS

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 408460

Sample: BL-IH-SB1-G, 8/27/08 **Lab ID: 408460013** Collected: 08/27/08 00:00 Received: 09/03/08 15:40 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCBs, Tissue	Analytical Method: EPA 8082 Preparation Method: EPA 3540								
PCB-1016 (Aroclor 1016)	**<76.0**	ug/kg	200	76.0	4	09/21/08 15:40	09/30/08 12:51	12674-11-2	
PCB-1221 (Aroclor 1221)	**<76.0**	ug/kg	200	76.0	4	09/21/08 15:40	09/30/08 12:51	11104-28-2	
PCB-1232 (Aroclor 1232)	**<76.0**	ug/kg	200	76.0	4	09/21/08 15:40	09/30/08 12:51	11141-16-5	
PCB-1242 (Aroclor 1242)	**<76.0**	ug/kg	200	76.0	4	09/21/08 15:40	09/30/08 12:51	53469-21-9	
PCB-1248 (Aroclor 1248)	**776**	ug/kg	200	76.0	4	09/21/08 15:40	09/30/08 12:51	12672-29-6	
PCB-1254 (Aroclor 1254)	**572**	ug/kg	200	76.0	4	09/21/08 15:40	09/30/08 12:51	11097-69-1	
PCB-1260 (Aroclor 1260)	**93.4J**	ug/kg	200	76.0	4	09/21/08 15:40	09/30/08 12:51	11096-82-5	
PCB, Total	**1440**	ug/kg	200	76.0	4	09/21/08 15:40	09/30/08 12:51	1336-36-3	
Tetrachloro-m-xylene (S)	91	%	40-136		4	09/21/08 15:40	09/30/08 12:51	877-09-8	
Decachlorobiphenyl (S)	101	%	47-145		4	09/21/08 15:40	09/30/08 12:51	2051-24-3	
Lipid	Analytical Method: Pace Lipid								
Lipid	**0.68**	%		0.10	1		09/24/08 07:17		

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ANALYTICAL RESULTS

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 408460

Sample: BL-IH-SB2-G, 8/27/08 **Lab ID: 408460014** Collected: 08/27/08 00:00 Received: 09/03/08 15:40 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCBs, Tissue	Analytical Method: EPA 8082 Preparation Method: EPA 3540								
PCB-1016 (Aroclor 1016)	**<95.0**	ug/kg	250	95.0	5	09/21/08 15:40	09/30/08 13:17	12674-11-2	
PCB-1221 (Aroclor 1221)	**<95.0**	ug/kg	250	95.0	5	09/21/08 15:40	09/30/08 13:17	11104-28-2	
PCB-1232 (Aroclor 1232)	**<95.0**	ug/kg	250	95.0	5	09/21/08 15:40	09/30/08 13:17	11141-16-5	
PCB-1242 (Aroclor 1242)	**<95.0**	ug/kg	250	95.0	5	09/21/08 15:40	09/30/08 13:17	53469-21-9	
PCB-1248 (Aroclor 1248)	**1470**	ug/kg	250	95.0	5	09/21/08 15:40	09/30/08 13:17	12672-29-6	
PCB-1254 (Aroclor 1254)	**1100**	ug/kg	250	95.0	5	09/21/08 15:40	09/30/08 13:17	11097-69-1	
PCB-1260 (Aroclor 1260)	**138J**	ug/kg	250	95.0	5	09/21/08 15:40	09/30/08 13:17	11096-82-5	
PCB, Total	**2700**	ug/kg	250	95.0	5	09/21/08 15:40	09/30/08 13:17	1336-36-3	
Tetrachloro-m-xylene (S)	95	%	40-136		5	09/21/08 15:40	09/30/08 13:17	877-09-8	
Decachlorobiphenyl (S)	107	%	47-145		5	09/21/08 15:40	09/30/08 13:17	2051-24-3	
Lipid	Analytical Method: Pace Lipid								
Lipid	**0.86**	%		0.10	1		09/24/08 07:17		

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ANALYTICAL RESULTS

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 408460

Sample: BL-IH-SB3-G, 8/27/08 **Lab ID: 408460015** Collected: 08/27/08 00:00 Received: 09/03/08 15:40 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCBs, Tissue	Analytical Method: EPA 8082 Preparation Method: EPA 3540								
PCB-1016 (Aroclor 1016)	**<190**	ug/kg	500	190	10	09/21/08 15:40	09/30/08 13:43	12674-11-2	
PCB-1221 (Aroclor 1221)	**<190**	ug/kg	500	190	10	09/21/08 15:40	09/30/08 13:43	11104-28-2	
PCB-1232 (Aroclor 1232)	**<190**	ug/kg	500	190	10	09/21/08 15:40	09/30/08 13:43	11141-16-5	
PCB-1242 (Aroclor 1242)	**<190**	ug/kg	500	190	10	09/21/08 15:40	09/30/08 13:43	53469-21-9	
PCB-1248 (Aroclor 1248)	**2300**	ug/kg	500	190	10	09/21/08 15:40	09/30/08 13:43	12672-29-6	
PCB-1254 (Aroclor 1254)	**1900**	ug/kg	500	190	10	09/21/08 15:40	09/30/08 13:43	11097-69-1	
PCB-1260 (Aroclor 1260)	**227J**	ug/kg	500	190	10	09/21/08 15:40	09/30/08 13:43	11096-82-5	
PCB, Total	**4430**	ug/kg	500	190	10	09/21/08 15:40	09/30/08 13:43	1336-36-3	
Tetrachloro-m-xylene (S)	100	%	40-136		10	09/21/08 15:40	09/30/08 13:43	877-09-8	
Decachlorobiphenyl (S)	117	%	47-145		10	09/21/08 15:40	09/30/08 13:43	2051-24-3	
Lipid	Analytical Method: Pace Lipid								
Lipid	**0.94**	%		0.10	1		09/24/08 07:18		

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ANALYTICAL RESULTS

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 408460

Sample: BL-IH-SB4-G, 8/27/08 **Lab ID: 408460016** Collected: 08/27/08 00:00 Received: 09/03/08 15:40 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCBs, Tissue	Analytical Method: EPA 8082 Preparation Method: EPA 3540								
PCB-1016 (Aroclor 1016)	**<190**	ug/kg	500	190	10	09/21/08 15:40	09/30/08 14:09	12674-11-2	
PCB-1221 (Aroclor 1221)	**<190**	ug/kg	500	190	10	09/21/08 15:40	09/30/08 14:09	11104-28-2	
PCB-1232 (Aroclor 1232)	**<190**	ug/kg	500	190	10	09/21/08 15:40	09/30/08 14:09	11141-16-5	
PCB-1242 (Aroclor 1242)	**<190**	ug/kg	500	190	10	09/21/08 15:40	09/30/08 14:09	53469-21-9	
PCB-1248 (Aroclor 1248)	**1800**	ug/kg	500	190	10	09/21/08 15:40	09/30/08 14:09	12672-29-6	
PCB-1254 (Aroclor 1254)	**1310**	ug/kg	500	190	10	09/21/08 15:40	09/30/08 14:09	11097-69-1	
PCB-1260 (Aroclor 1260)	**<190**	ug/kg	500	190	10	09/21/08 15:40	09/30/08 14:09	11096-82-5	
PCB, Total	**3100**	ug/kg	500	190	10	09/21/08 15:40	09/30/08 14:09	1336-36-3	
Tetrachloro-m-xylene (S)	96	%	40-136		10	09/21/08 15:40	09/30/08 14:09	877-09-8	
Decachlorobiphenyl (S)	112	%	47-145		10	09/21/08 15:40	09/30/08 14:09	2051-24-3	
Lipid	Analytical Method: Pace Lipid								
Lipid	**1.0**	%		0.10	1		09/24/08 07:18		

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(920)469-2436

ANALYTICAL RESULTS

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 408460

Sample: BL-IH-SB5-G, 8/27/08 **Lab ID: 408460017** Collected: 08/27/08 00:00 Received: 09/03/08 15:40 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCBs, Tissue	Analytical Method: EPA 8082 Preparation Method: EPA 3540								
PCB-1016 (Aroclor 1016)	**<190**	ug/kg	500	190	10	09/21/08 15:40	09/30/08 14:34	12674-11-2	
PCB-1221 (Aroclor 1221)	**<190**	ug/kg	500	190	10	09/21/08 15:40	09/30/08 14:34	11104-28-2	
PCB-1232 (Aroclor 1232)	**<190**	ug/kg	500	190	10	09/21/08 15:40	09/30/08 14:34	11141-16-5	
PCB-1242 (Aroclor 1242)	**<190**	ug/kg	500	190	10	09/21/08 15:40	09/30/08 14:34	53469-21-9	
PCB-1248 (Aroclor 1248)	**2490**	ug/kg	500	190	10	09/21/08 15:40	09/30/08 14:34	12672-29-6	
PCB-1254 (Aroclor 1254)	**1500**	ug/kg	500	190	10	09/21/08 15:40	09/30/08 14:34	11097-69-1	
PCB-1260 (Aroclor 1260)	**193J**	ug/kg	500	190	10	09/21/08 15:40	09/30/08 14:34	11096-82-5	
PCB, Total	**4180**	ug/kg	500	190	10	09/21/08 15:40	09/30/08 14:34	1336-36-3	
Tetrachloro-m-xylene (S)	89	%	40-136		10	09/21/08 15:40	09/30/08 14:34	877-09-8	
Decachlorobiphenyl (S)	117	%	47-145		10	09/21/08 15:40	09/30/08 14:34	2051-24-3	
Lipid	Analytical Method: Pace Lipid								
Lipid	**0.98**	%		0.10	1		09/24/08 07:18		

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ANALYTICAL RESULTS

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 408460

Sample: BL-IH-W1-G, 8/27/08 **Lab ID: 408460018** Collected: 08/27/08 00:00 Received: 09/03/08 15:40 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCBs, Tissue	Analytical Method: EPA 8082 Preparation Method: EPA 3540								
PCB-1016 (Aroclor 1016)	**<190**	ug/kg	500	190	10	09/21/08 15:40	09/30/08 15:00	12674-11-2	
PCB-1221 (Aroclor 1221)	**<190**	ug/kg	500	190	10	09/21/08 15:40	09/30/08 15:00	11104-28-2	
PCB-1232 (Aroclor 1232)	**<190**	ug/kg	500	190	10	09/21/08 15:40	09/30/08 15:00	11141-16-5	
PCB-1242 (Aroclor 1242)	**<190**	ug/kg	500	190	10	09/21/08 15:40	09/30/08 15:00	53469-21-9	
PCB-1248 (Aroclor 1248)	**1930**	ug/kg	500	190	10	09/21/08 15:40	09/30/08 15:00	12672-29-6	
PCB-1254 (Aroclor 1254)	**1070**	ug/kg	500	190	10	09/21/08 15:40	09/30/08 15:00	11097-69-1	
PCB-1260 (Aroclor 1260)	**<190**	ug/kg	500	190	10	09/21/08 15:40	09/30/08 15:00	11096-82-5	
PCB, Total	**3000**	ug/kg	500	190	10	09/21/08 15:40	09/30/08 15:00	1336-36-3	
Tetrachloro-m-xylene (S)	98	%	40-136		10	09/21/08 15:40	09/30/08 15:00	877-09-8	
Decachlorobiphenyl (S)	117	%	47-145		10	09/21/08 15:40	09/30/08 15:00	2051-24-3	
Lipid	Analytical Method: Pace Lipid								
Lipid	**3.7**	%		0.10	1		09/24/08 07:18		

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ANALYTICAL RESULTS

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 408460

Sample: BL-IH-AC1-G, 8/27/08 **Lab ID: 408460019** Collected: 08/27/08 00:00 Received: 09/03/08 15:40 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCBs, Tissue	Analytical Method: EPA 8082 Preparation Method: EPA 3540								
PCB-1016 (Aroclor 1016)	**<570**	ug/kg	1500	570	30	09/21/08 15:40	09/30/08 15:26	12674-11-2	
PCB-1221 (Aroclor 1221)	**<570**	ug/kg	1500	570	30	09/21/08 15:40	09/30/08 15:26	11104-28-2	
PCB-1232 (Aroclor 1232)	**<570**	ug/kg	1500	570	30	09/21/08 15:40	09/30/08 15:26	11141-16-5	
PCB-1242 (Aroclor 1242)	**<570**	ug/kg	1500	570	30	09/21/08 15:40	09/30/08 15:26	53469-21-9	
PCB-1248 (Aroclor 1248)	**5520**	ug/kg	1500	570	30	09/21/08 15:40	09/30/08 15:26	12672-29-6	
PCB-1254 (Aroclor 1254)	**3620**	ug/kg	1500	570	30	09/21/08 15:40	09/30/08 15:26	11097-69-1	
PCB-1260 (Aroclor 1260)	**<570**	ug/kg	1500	570	30	09/21/08 15:40	09/30/08 15:26	11096-82-5	
PCB, Total	**9140**	ug/kg	1500	570	30	09/21/08 15:40	09/30/08 15:26	1336-36-3	
Tetrachloro-m-xylene (S)	0	%	40-136		30	09/21/08 15:40	09/30/08 15:26	877-09-8	S4
Decachlorobiphenyl (S)	0	%	47-145		30	09/21/08 15:40	09/30/08 15:26	2051-24-3	S4
Lipid	Analytical Method: Pace Lipid								
Lipid	**3.8**	%		0.10	1		09/24/08 07:19		

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ANALYTICAL RESULTS

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 408460

Sample: BL-IH-AC2-G, 8/27/08 **Lab ID: 408460020** Collected: 08/27/08 00:00 Received: 09/03/08 15:40 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCBs, Tissue	Analytical Method: EPA 8082 Preparation Method: EPA 3540								
PCB-1016 (Aroclor 1016)	**<190**	ug/kg	500	190	10	09/21/08 15:40	09/30/08 15:51	12674-11-2	
PCB-1221 (Aroclor 1221)	**<190**	ug/kg	500	190	10	09/21/08 15:40	09/30/08 15:51	11104-28-2	
PCB-1232 (Aroclor 1232)	**<190**	ug/kg	500	190	10	09/21/08 15:40	09/30/08 15:51	11141-16-5	
PCB-1242 (Aroclor 1242)	**<190**	ug/kg	500	190	10	09/21/08 15:40	09/30/08 15:51	53469-21-9	
PCB-1248 (Aroclor 1248)	**2020**	ug/kg	500	190	10	09/21/08 15:40	09/30/08 15:51	12672-29-6	
PCB-1254 (Aroclor 1254)	**1200**	ug/kg	500	190	10	09/21/08 15:40	09/30/08 15:51	11097-69-1	
PCB-1260 (Aroclor 1260)	**<190**	ug/kg	500	190	10	09/21/08 15:40	09/30/08 15:51	11096-82-5	
PCB, Total	**3210**	ug/kg	500	190	10	09/21/08 15:40	09/30/08 15:51	1336-36-3	
Tetrachloro-m-xylene (S)	97	%	40-136		10	09/21/08 15:40	09/30/08 15:51	877-09-8	
Decachlorobiphenyl (S)	112	%	47-145		10	09/21/08 15:40	09/30/08 15:51	2051-24-3	
Lipid	Analytical Method: Pace Lipid								
Lipid	**1.9**	%		0.10	1		09/24/08 07:19		

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QUALITY CONTROL DATA

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 408460

QC Batch: OEXT/2722 Analysis Method: EPA 8082
QC Batch Method: EPA 3540 Analysis Description: 8082 GCS Tissue Pesticides
Associated Lab Samples: 408460001, 408460002, 408460003, 408460004, 408460005, 408460006, 408460007, 408460008, 408460009, 408460010, 408460011, 408460012, 408460013, 408460014, 408460015, 408460016, 408460017, 408460018, 408460019, 408460020

METHOD BLANK: 79345 Matrix: Tissue
Associated Lab Samples: 408460001, 408460002, 408460003, 408460004, 408460005, 408460006, 408460007, 408460008, 408460009, 408460010, 408460011, 408460012, 408460013, 408460014, 408460015, 408460016, 408460017, 408460018, 408460019, 408460020

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg	<19.0	50.0	09/30/08 05:09	
PCB-1221 (Aroclor 1221)	ug/kg	<19.0	50.0	09/30/08 05:09	
PCB-1232 (Aroclor 1232)	ug/kg	<19.0	50.0	09/30/08 05:09	
PCB-1242 (Aroclor 1242)	ug/kg	<19.0	50.0	09/30/08 05:09	
PCB-1248 (Aroclor 1248)	ug/kg	<19.0	50.0	09/30/08 05:09	
PCB-1254 (Aroclor 1254)	ug/kg	<19.0	50.0	09/30/08 05:09	
PCB-1260 (Aroclor 1260)	ug/kg	<19.0	50.0	09/30/08 05:09	
Decachlorobiphenyl (S)	%	98	47-145	09/30/08 05:09	
Tetrachloro-m-xylene (S)	%	94	40-136	09/30/08 05:09	

LABORATORY CONTROL SAMPLE: 79346

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg		<76.0			
PCB-1221 (Aroclor 1221)	ug/kg		<76.0			
PCB-1232 (Aroclor 1232)	ug/kg		<76.0			
PCB-1242 (Aroclor 1242)	ug/kg	1000	741	74	40-128	
PCB-1248 (Aroclor 1248)	ug/kg		<76.0			
PCB-1254 (Aroclor 1254)	ug/kg		<76.0			
PCB-1260 (Aroclor 1260)	ug/kg		<76.0			
Decachlorobiphenyl (S)	%			71	47-145	
Tetrachloro-m-xylene (S)	%			66	40-136	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 79347 79348

Parameter	Units	408460013 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
PCB-1016 (Aroclor 1016)	ug/kg	<76.0			<380	<380					56	
PCB-1221 (Aroclor 1221)	ug/kg	<76.0			<380	<380					56	
PCB-1232 (Aroclor 1232)	ug/kg	<76.0			<380	<380					56	
PCB-1242 (Aroclor 1242)	ug/kg	<76.0	4000	4000	4220	4210	106	105	43-130	.3	56	
PCB-1248 (Aroclor 1248)	ug/kg	776			<380	<380					56	
PCB-1254 (Aroclor 1254)	ug/kg	572			1170	1170				.2	56	
PCB-1260 (Aroclor 1260)	ug/kg	93.4J			<380	<380					56	
Decachlorobiphenyl (S)	%						0	0	47-145			S4
Tetrachloro-m-xylene (S)	%						0	0	40-136			S4

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 408460

QC Batch: OEXT/2746 Analysis Method: Pace Lipid
QC Batch Method: Pace Lipid Analysis Description: LIPID
Associated Lab Samples: 408460001, 408460002, 408460003, 408460004, 408460005, 408460006, 408460007, 408460008, 408460009, 408460010, 408460011, 408460012, 408460013, 408460014, 408460015, 408460016, 408460017, 408460018, 408460019, 408460020

METHOD BLANK: 79862 Matrix: Tissue
Associated Lab Samples: 408460001, 408460002, 408460003, 408460004, 408460005, 408460006, 408460007, 408460008, 408460009, 408460010, 408460011, 408460012, 408460013, 408460014, 408460015, 408460016, 408460017, 408460018, 408460019, 408460020

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lipid	%	<0.10		09/24/08 07:12	

SAMPLE DUPLICATE: 79863

Parameter	Units	408460013 Result	Dup Result	RPD	Max RPD	Qualifiers
Lipid	%	0.68	0.83	20	20	

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QUALIFIERS

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 408460

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

Pace Analytical is NELAP accredited. Contact your Pace PM for the current list of accredited analytes.

ANALYTE QUALIFIERS

S4 Surrogate recovery not evaluated against control limits due to sample dilution.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 408460

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
408460001	**BL-LR-RB1-G, 8/26/08**	EPA 3540	OEXT/2722	EPA 8082	GCSV/1937
408460002	**BL-LR-RB2-G, 8/26/08**	EPA 3540	OEXT/2722	EPA 8082	GCSV/1937
408460003	**BL-LR-RB3-G, 8/26/08**	EPA 3540	OEXT/2722	EPA 8082	GCSV/1937
408460004	**BL-LR-RB4-G, 8/26/08**	EPA 3540	OEXT/2722	EPA 8082	GCSV/1937
408460005	**BL-LR-RB5-G, 8/26/08**	EPA 3540	OEXT/2722	EPA 8082	GCSV/1937
408460006	**BL-LR-RB6-G, 8/26/08**	EPA 3540	OEXT/2722	EPA 8082	GCSV/1937
408460007	**BL-LR-RB7-G, 8/26/08**	EPA 3540	OEXT/2722	EPA 8082	GCSV/1937
408460008	**BL-LR-JWS2-G, 8/26/08**	EPA 3540	OEXT/2722	EPA 8082	GCSV/1937
408460009	**BL-LR-JWS3-G, 8/26/08**	EPA 3540	OEXT/2722	EPA 8082	GCSV/1937
408460010	**BL-LR-JWS4-G, 8/26/08**	EPA 3540	OEXT/2722	EPA 8082	GCSV/1937
408460011	**BL-LR-RB8-G, 8/26/08**	EPA 3540	OEXT/2722	EPA 8082	GCSV/1937
408460012	**BL-LR-RB9-G, 8/26/08**	EPA 3540	OEXT/2722	EPA 8082	GCSV/1937
408460013	**BL-IH-SB1-G, 8/27/08**	EPA 3540	OEXT/2722	EPA 8082	GCSV/1937
408460014	**BL-IH-SB2-G, 8/27/08**	EPA 3540	OEXT/2722	EPA 8082	GCSV/1937
408460015	**BL-IH-SB3-G, 8/27/08**	EPA 3540	OEXT/2722	EPA 8082	GCSV/1937
408460016	**BL-IH-SB4-G, 8/27/08**	EPA 3540	OEXT/2722	EPA 8082	GCSV/1937
408460017	**BL-IH-SB5-G, 8/27/08**	EPA 3540	OEXT/2722	EPA 8082	GCSV/1937
408460018	**BL-IH-W1-G, 8/27/08**	EPA 3540	OEXT/2722	EPA 8082	GCSV/1937
408460019	**BL-IH-AC1-G, 8/27/08**	EPA 3540	OEXT/2722	EPA 8082	GCSV/1937
408460020	**BL-IH-AC2-G, 8/27/08**	EPA 3540	OEXT/2722	EPA 8082	GCSV/1937
408460001	**BL-LR-RB1-G, 8/26/08**	Pace Lipid	OEXT/2746		
408460002	**BL-LR-RB2-G, 8/26/08**	Pace Lipid	OEXT/2746		
408460003	**BL-LR-RB3-G, 8/26/08**	Pace Lipid	OEXT/2746		
408460004	**BL-LR-RB4-G, 8/26/08**	Pace Lipid	OEXT/2746		
408460005	**BL-LR-RB5-G, 8/26/08**	Pace Lipid	OEXT/2746		
408460006	**BL-LR-RB6-G, 8/26/08**	Pace Lipid	OEXT/2746		
408460007	**BL-LR-RB7-G, 8/26/08**	Pace Lipid	OEXT/2746		
408460008	**BL-LR-JWS2-G, 8/26/08**	Pace Lipid	OEXT/2746		
408460009	**BL-LR-JWS3-G, 8/26/08**	Pace Lipid	OEXT/2746		
408460010	**BL-LR-JWS4-G, 8/26/08**	Pace Lipid	OEXT/2746		
408460011	**BL-LR-RB8-G, 8/26/08**	Pace Lipid	OEXT/2746		
408460012	**BL-LR-RB9-G, 8/26/08**	Pace Lipid	OEXT/2746		
408460013	**BL-IH-SB1-G, 8/27/08**	Pace Lipid	OEXT/2746		
408460014	**BL-IH-SB2-G, 8/27/08**	Pace Lipid	OEXT/2746		
408460015	**BL-IH-SB3-G, 8/27/08**	Pace Lipid	OEXT/2746		
408460016	**BL-IH-SB4-G, 8/27/08**	Pace Lipid	OEXT/2746		
408460017	**BL-IH-SB5-G, 8/27/08**	Pace Lipid	OEXT/2746		
408460018	**BL-IH-W1-G, 8/27/08**	Pace Lipid	OEXT/2746		
408460019	**BL-IH-AC1-G, 8/27/08**	Pace Lipid	OEXT/2746		
408460020	**BL-IH-AC2-G, 8/27/08**	Pace Lipid	OEXT/2746		

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October 15, 2008

BRANDY PROFFITT
POLLUTION RISK SERVICES
7870 EAST KEMPER ROAD
SUITE 240
Cincinnati, OH 45249

RE: Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 408619

Dear BRANDY PROFFITT:
Enclosed are the analytical results for sample(s) received by the laboratory on September 05, 2008. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Tod Noltemeyer

Tod Noltemeyer

tod.noltemeyer@pacelabs.com
Project Manager

Enclosures

REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 408619

Green Bay Certification IDs

Louisiana Certification #: 04169
Louisiana Certification #: 04168
Kentucky Certification #: 83
Kentucky Certification #: 82
Wisconsin DATCP Certification #: 105-444
Wisconsin DATCP Certification #: 105-444
Wisconsin Certification #: 405132750
Wisconsin Certification #: 405132750
South Carolina Certification #: 83006001
South Carolina Certification #: 83006001
Minnesota Certification #: 055-999-334
Minnesota Certification #: 055-999-334
North Carolina Certification #: 503
North Carolina Certification #: 503
North Dakota Certification #: R-200
North Dakota Certification #: R-150
New York Certification #: 11888
New York Certification #: 11887
Illinois Certification #: 200051
Illinois Certification #: 200050
Florida (NELAP) Certification #: E87951
Florida (NELAP) Certification #: E87948

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SAMPLE SUMMARY

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 408619

Lab ID	Sample ID	Matrix	Date Collected	Date Received
408619001	BL-IH-SB6-G, 8/27/08	Tissue	08/27/08 00:00	09/05/08 14:14
408619002	BL-IH-SB7-G, 8/27/08	Tissue	08/27/08 00:00	09/05/08 14:14
408619003	BL-IH-AC3-G, 8/27/08	Tissue	08/27/08 00:00	09/05/08 14:14
408619004	BL-IH-AC4-G, 8/27/08	Tissue	08/27/08 00:00	09/05/08 14:14
408619005	BL-IH-AC5-G, 8/27/08	Tissue	08/27/08 00:00	09/05/08 14:14
408619006	BL-IH-AC6-G, 8/27/08	Tissue	08/27/08 00:00	09/05/08 14:14
408619007	BL-IH-AC7-G, 8/27/08	Tissue	08/27/08 00:00	09/05/08 14:14
408619008	BL-IH-AC8-G, 8/27/08	Tissue	08/27/08 00:00	09/05/08 14:14
408619009	BL-IH-CC1-G, 9/2/08	Tissue	09/02/08 00:00	09/05/08 14:14
408619010	BL-IH-SB8-G, 9/2/08	Tissue	09/02/08 00:00	09/05/08 14:14
408619011	BL-LR-AC3-G, 9/3/08	Tissue	09/03/08 00:00	09/05/08 14:14
408619012	BL-LR-AC4-G, 9/3/08	Tissue	09/03/08 00:00	09/05/08 14:14
408619013	BL-LR-AC5-G, 9/3/08	Tissue	09/03/08 00:00	09/05/08 14:14
408619014	BL-LR-AC6-G, 9/3/08	Tissue	09/03/08 00:00	09/05/08 14:14
408619015	BL-LR-AC7-G, 9/3/08	Tissue	09/03/08 00:00	09/05/08 14:14
408619016	BL-LR-AC8-G, 9/3/08	Tissue	09/03/08 00:00	09/05/08 14:14
408619017	BL-LR-JWS5-G, 9/3/08	Tissue	09/03/08 00:00	09/05/08 14:14

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SAMPLE ANALYTE COUNT

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 408619

Lab ID	Sample ID	Method	Analysts	Analytes Reported
408619001	**BL-IH-SB6-G, 8/27/08**	EPA 8082	BDS	10
		Pace Lipid	NJB	1
408619002	**BL-IH-SB7-G, 8/27/08**	EPA 8082	BDS	10
		Pace Lipid	NJB	1
408619003	**BL-IH-AC3-G, 8/27/08**	EPA 8082	BDS	10
		Pace Lipid	NJB	1
408619004	**BL-IH-AC4-G, 8/27/08**	EPA 8082	BDS	10
		Pace Lipid	NJB	1
408619005	**BL-IH-AC5-G, 8/27/08**	EPA 8082	BDS	10
		Pace Lipid	NJB	1
408619006	**BL-IH-AC6-G, 8/27/08**	EPA 8082	BDS	10
		Pace Lipid	NJB	1
408619007	**BL-IH-AC7-G, 8/27/08**	EPA 8082	BDS	10
		Pace Lipid	NJB	1
408619008	**BL-IH-AC8-G, 8/27/08**	EPA 8082	BDS	10
		Pace Lipid	NJB	1
408619009	**BL-IH-CC1-G, 9/2/08**	EPA 8082	BDS	10
		Pace Lipid	NJB	1
408619010	**BL-IH-SB8-G, 9/2/08**	EPA 8082	BDS	10
		Pace Lipid	NJB	1
408619011	**BL-LR-AC3-G, 9/3/08**	EPA 8082	BDS	10
		Pace Lipid	NJB	1
408619012	**BL-LR-AC4-G, 9/3/08**	EPA 8082	BDS	10
		Pace Lipid	NJB	1
408619013	**BL-LR-AC5-G, 9/3/08**	EPA 8082	BDS	10
		Pace Lipid	NJB	1
408619014	**BL-LR-AC6-G, 9/3/08**	EPA 8082	BDS	10
		Pace Lipid	NJB	1
408619015	**BL-LR-AC7-G, 9/3/08**	EPA 8082	BDS	10
		Pace Lipid	NJB	1
408619016	**BL-LR-AC8-G, 9/3/08**	EPA 8082	BDS	10
		Pace Lipid	NJB	1
408619017	**BL-LR-JWS5-G, 9/3/08**	EPA 8082	BDS	10
		Pace Lipid	NJB	1

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PROJECT NARRATIVE

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 408619

Method: **EPA 8082**
Description: 8082 GCS PCBs, Tissue
Client: POLLUTION RISK SERVICES
Date: October 15, 2008

General Information:
17 samples were analyzed for EPA 8082. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 3540 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

QC Batch: OEXT/2743

S4: Surrogate recovery not evaluated against control limits due to sample dilution.

- BL-IH-AC4-G, 8/27/08 (Lab ID: 408619004)
  - Decachlorobiphenyl (S)
  - Tetrachloro-m-xylene (S)
- BL-IH-CC1-G, 9/2/08 (Lab ID: 408619009)
  - Decachlorobiphenyl (S)
  - Tetrachloro-m-xylene (S)
- BL-IH-SB6-G, 8/27/08 (Lab ID: 408619001)
  - Decachlorobiphenyl (S)
  - Tetrachloro-m-xylene (S)
- BL-IH-SB7-G, 8/27/08 (Lab ID: 408619002)
  - Decachlorobiphenyl (S)
  - Tetrachloro-m-xylene (S)
- BL-LR-AC4-G, 9/3/08 (Lab ID: 408619012)
  - Decachlorobiphenyl (S)
  - Tetrachloro-m-xylene (S)
- BL-LR-AC5-G, 9/3/08 (Lab ID: 408619013)
  - Decachlorobiphenyl (S)
  - Tetrachloro-m-xylene (S)
- BL-LR-AC6-G, 9/3/08 (Lab ID: 408619014)
  - Decachlorobiphenyl (S)
  - Tetrachloro-m-xylene (S)
- MS (Lab ID: 79779)
  - Decachlorobiphenyl (S)
  - Tetrachloro-m-xylene (S)
- MSD (Lab ID: 79780)

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PROJECT NARRATIVE

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 408619

Method: **EPA 8082**
Description: 8082 GCS PCBs, Tissue
Client: POLLUTION RISK SERVICES
Date: October 15, 2008

QC Batch: OEXT/2743

S4: Surrogate recovery not evaluated against control limits due to sample dilution.
- Decachlorobiphenyl (S)
- Tetrachloro-m-xylene (S)

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: OEXT/2743

A matrix spike and matrix spike duplicate (MS/MSD) were performed on the following sample(s): 408619001

M0: Matrix spike recovery was outside laboratory control limits.
- MS (Lab ID: 79779)
  - PCB-1242 (Aroclor 1242)
- MSD (Lab ID: 79780)
  - PCB-1242 (Aroclor 1242)

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 408619

Method: **Pace Lipid**
Description: Lipid
Client: POLLUTION RISK SERVICES
Date: October 15, 2008

General Information:
17 samples were analyzed for Pace Lipid. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

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ANALYTICAL RESULTS

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 408619

Sample: BL-IH-SB6-G, 8/27/08 **Lab ID: 408619001** Collected: 08/27/08 00:00 Received: 09/05/08 14:14 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCBs, Tissue	Analytical Method: EPA 8082 Preparation Method: EPA 3540								
PCB-1016 (Aroclor 1016)	**<380**	ug/kg	1000	380	20	09/23/08 15:25	10/01/08 05:36	12674-11-2	
PCB-1221 (Aroclor 1221)	**<380**	ug/kg	1000	380	20	09/23/08 15:25	10/01/08 05:36	11104-28-2	
PCB-1232 (Aroclor 1232)	**<380**	ug/kg	1000	380	20	09/23/08 15:25	10/01/08 05:36	11141-16-5	
PCB-1242 (Aroclor 1242)	**<380**	ug/kg	1000	380	20	09/23/08 15:25	10/01/08 05:36	53469-21-9	M0
PCB-1248 (Aroclor 1248)	**2630**	ug/kg	1000	380	20	09/23/08 15:25	10/01/08 05:36	12672-29-6	
PCB-1254 (Aroclor 1254)	**1680**	ug/kg	1000	380	20	09/23/08 15:25	10/01/08 05:36	11097-69-1	
PCB-1260 (Aroclor 1260)	**<380**	ug/kg	1000	380	20	09/23/08 15:25	10/01/08 05:36	11096-82-5	
PCB, Total	**4310**	ug/kg	1000	380	20	09/23/08 15:25	10/01/08 05:36	1336-36-3	
Tetrachloro-m-xylene (S)	0	%	40-136		20	09/23/08 15:25	10/01/08 05:36	877-09-8	S4
Decachlorobiphenyl (S)	0	%	47-145		20	09/23/08 15:25	10/01/08 05:36	2051-24-3	S4
Lipid	Analytical Method: Pace Lipid								
Lipid	**1.1**	%		0.10	1		09/25/08 09:47		

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ANALYTICAL RESULTS

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 408619

Sample: BL-IH-SB7-G, 8/27/08 **Lab ID: 408619002** Collected: 08/27/08 00:00 Received: 09/05/08 14:14 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCBs, Tissue	Analytical Method: EPA 8082 Preparation Method: EPA 3540								
PCB-1016 (Aroclor 1016)	**<380**	ug/kg	1000	380	20	09/23/08 15:25	10/01/08 06:04	12674-11-2	
PCB-1221 (Aroclor 1221)	**<380**	ug/kg	1000	380	20	09/23/08 15:25	10/01/08 06:04	11104-28-2	
PCB-1232 (Aroclor 1232)	**<380**	ug/kg	1000	380	20	09/23/08 15:25	10/01/08 06:04	11141-16-5	
PCB-1242 (Aroclor 1242)	**<380**	ug/kg	1000	380	20	09/23/08 15:25	10/01/08 06:04	53469-21-9	
PCB-1248 (Aroclor 1248)	**2370**	ug/kg	1000	380	20	09/23/08 15:25	10/01/08 06:04	12672-29-6	
PCB-1254 (Aroclor 1254)	**1530**	ug/kg	1000	380	20	09/23/08 15:25	10/01/08 06:04	11097-69-1	
PCB-1260 (Aroclor 1260)	**<380**	ug/kg	1000	380	20	09/23/08 15:25	10/01/08 06:04	11096-82-5	
PCB, Total	**3910**	ug/kg	1000	380	20	09/23/08 15:25	10/01/08 06:04	1336-36-3	
Tetrachloro-m-xylene (S)	0	%	40-136		20	09/23/08 15:25	10/01/08 06:04	877-09-8	S4
Decachlorobiphenyl (S)	0	%	47-145		20	09/23/08 15:25	10/01/08 06:04	2051-24-3	S4
Lipid	Analytical Method: Pace Lipid								
Lipid	**1.6**	%		0.10	1		09/25/08 09:47		

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ANALYTICAL RESULTS

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 408619

Sample: BL-IH-AC3-G, 8/27/08 **Lab ID: 408619003** Collected: 08/27/08 00:00 Received: 09/05/08 14:14 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCBs, Tissue	Analytical Method: EPA 8082 Preparation Method: EPA 3540								
PCB-1016 (Aroclor 1016)	**<190**	ug/kg	500	190	10	09/23/08 15:25	10/01/08 06:32	12674-11-2	
PCB-1221 (Aroclor 1221)	**<190**	ug/kg	500	190	10	09/23/08 15:25	10/01/08 06:32	11104-28-2	
PCB-1232 (Aroclor 1232)	**<190**	ug/kg	500	190	10	09/23/08 15:25	10/01/08 06:32	11141-16-5	
PCB-1242 (Aroclor 1242)	**<190**	ug/kg	500	190	10	09/23/08 15:25	10/01/08 06:32	53469-21-9	
PCB-1248 (Aroclor 1248)	**1670**	ug/kg	500	190	10	09/23/08 15:25	10/01/08 06:32	12672-29-6	
PCB-1254 (Aroclor 1254)	**785**	ug/kg	500	190	10	09/23/08 15:25	10/01/08 06:32	11097-69-1	
PCB-1260 (Aroclor 1260)	**<190**	ug/kg	500	190	10	09/23/08 15:25	10/01/08 06:32	11096-82-5	
PCB, Total	**2460**	ug/kg	500	190	10	09/23/08 15:25	10/01/08 06:32	1336-36-3	
Tetrachloro-m-xylene (S)	95	%	40-136		10	09/23/08 15:25	10/01/08 06:32	877-09-8	
Decachlorobiphenyl (S)	108	%	47-145		10	09/23/08 15:25	10/01/08 06:32	2051-24-3	
Lipid	Analytical Method: Pace Lipid								
Lipid	**2.5**	%		0.10	1		09/25/08 09:47		

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ANALYTICAL RESULTS

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 408619

Sample: BL-IH-AC4-G, 8/27/08 **Lab ID: 408619004** Collected: 08/27/08 00:00 Received: 09/05/08 14:14 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCBs, Tissue	Analytical Method: EPA 8082 Preparation Method: EPA 3540								
PCB-1016 (Aroclor 1016)	**<380**	ug/kg	1000	380	20	09/23/08 15:25	10/01/08 07:00	12674-11-2	
PCB-1221 (Aroclor 1221)	**<380**	ug/kg	1000	380	20	09/23/08 15:25	10/01/08 07:00	11104-28-2	
PCB-1232 (Aroclor 1232)	**<380**	ug/kg	1000	380	20	09/23/08 15:25	10/01/08 07:00	11141-16-5	
PCB-1242 (Aroclor 1242)	**<380**	ug/kg	1000	380	20	09/23/08 15:25	10/01/08 07:00	53469-21-9	
PCB-1248 (Aroclor 1248)	**3520**	ug/kg	1000	380	20	09/23/08 15:25	10/01/08 07:00	12672-29-6	
PCB-1254 (Aroclor 1254)	**1490**	ug/kg	1000	380	20	09/23/08 15:25	10/01/08 07:00	11097-69-1	
PCB-1260 (Aroclor 1260)	**<380**	ug/kg	1000	380	20	09/23/08 15:25	10/01/08 07:00	11096-82-5	
PCB, Total	**5020**	ug/kg	1000	380	20	09/23/08 15:25	10/01/08 07:00	1336-36-3	
Tetrachloro-m-xylene (S)	0	%	40-136		20	09/23/08 15:25	10/01/08 07:00	877-09-8	S4
Decachlorobiphenyl (S)	0	%	47-145		20	09/23/08 15:25	10/01/08 07:00	2051-24-3	S4
Lipid	Analytical Method: Pace Lipid								
Lipid	**3.0**	%		0.10	1		09/25/08 09:48		

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ANALYTICAL RESULTS

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 408619

Sample: BL-IH-AC5-G, 8/27/08 **Lab ID: 408619005** Collected: 08/27/08 00:00 Received: 09/05/08 14:14 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCBs, Tissue	Analytical Method: EPA 8082 Preparation Method: EPA 3540								
PCB-1016 (Aroclor 1016)	**<95.0**	ug/kg	250	95.0	5	09/23/08 15:25	10/01/08 07:28	12674-11-2	
PCB-1221 (Aroclor 1221)	**<95.0**	ug/kg	250	95.0	5	09/23/08 15:25	10/01/08 07:28	11104-28-2	
PCB-1232 (Aroclor 1232)	**<95.0**	ug/kg	250	95.0	5	09/23/08 15:25	10/01/08 07:28	11141-16-5	
PCB-1242 (Aroclor 1242)	**<95.0**	ug/kg	250	95.0	5	09/23/08 15:25	10/01/08 07:28	53469-21-9	
PCB-1248 (Aroclor 1248)	**1420**	ug/kg	250	95.0	5	09/23/08 15:25	10/01/08 07:28	12672-29-6	
PCB-1254 (Aroclor 1254)	**778**	ug/kg	250	95.0	5	09/23/08 15:25	10/01/08 07:28	11097-69-1	
PCB-1260 (Aroclor 1260)	**99.0J**	ug/kg	250	95.0	5	09/23/08 15:25	10/01/08 07:28	11096-82-5	
PCB, Total	**2300**	ug/kg	250	95.0	5	09/23/08 15:25	10/01/08 07:28	1336-36-3	
Tetrachloro-m-xylene (S)	98	%	40-136		5	09/23/08 15:25	10/01/08 07:28	877-09-8	
Decachlorobiphenyl (S)	106	%	47-145		5	09/23/08 15:25	10/01/08 07:28	2051-24-3	
Lipid	Analytical Method: Pace Lipid								
Lipid	**4.0**	%		0.10	1		09/25/08 09:53		

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ANALYTICAL RESULTS

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 408619

Sample: BL-IH-AC6-G, 8/27/08 **Lab ID: 408619006** Collected: 08/27/08 00:00 Received: 09/05/08 14:14 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCBs, Tissue	Analytical Method: EPA 8082 Preparation Method: EPA 3540								
PCB-1016 (Aroclor 1016)	**<95.0**	ug/kg	250	95.0	5	09/23/08 15:25	10/01/08 07:56	12674-11-2	
PCB-1221 (Aroclor 1221)	**<95.0**	ug/kg	250	95.0	5	09/23/08 15:25	10/01/08 07:56	11104-28-2	
PCB-1232 (Aroclor 1232)	**<95.0**	ug/kg	250	95.0	5	09/23/08 15:25	10/01/08 07:56	11141-16-5	
PCB-1242 (Aroclor 1242)	**<95.0**	ug/kg	250	95.0	5	09/23/08 15:25	10/01/08 07:56	53469-21-9	
PCB-1248 (Aroclor 1248)	**1150**	ug/kg	250	95.0	5	09/23/08 15:25	10/01/08 07:56	12672-29-6	
PCB-1254 (Aroclor 1254)	**760**	ug/kg	250	95.0	5	09/23/08 15:25	10/01/08 07:56	11097-69-1	
PCB-1260 (Aroclor 1260)	**149J**	ug/kg	250	95.0	5	09/23/08 15:25	10/01/08 07:56	11096-82-5	
PCB, Total	**2050**	ug/kg	250	95.0	5	09/23/08 15:25	10/01/08 07:56	1336-36-3	
Tetrachloro-m-xylene (S)	91	%	40-136		5	09/23/08 15:25	10/01/08 07:56	877-09-8	
Decachlorobiphenyl (S)	104	%	47-145		5	09/23/08 15:25	10/01/08 07:56	2051-24-3	
Lipid	Analytical Method: Pace Lipid								
Lipid	**4.1**	%		0.10	1		09/25/08 09:53		

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ANALYTICAL RESULTS

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 408619

Sample: BL-IH-AC7-G, 8/27/08 **Lab ID: 408619007** Collected: 08/27/08 00:00 Received: 09/05/08 14:14 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCBs, Tissue	Analytical Method: EPA 8082 Preparation Method: EPA 3540								
PCB-1016 (Aroclor 1016)	**<57.0**	ug/kg	150	57.0	3	09/23/08 15:25	10/01/08 08:24	12674-11-2	
PCB-1221 (Aroclor 1221)	**<57.0**	ug/kg	150	57.0	3	09/23/08 15:25	10/01/08 08:24	11104-28-2	
PCB-1232 (Aroclor 1232)	**<57.0**	ug/kg	150	57.0	3	09/23/08 15:25	10/01/08 08:24	11141-16-5	
PCB-1242 (Aroclor 1242)	**<57.0**	ug/kg	150	57.0	3	09/23/08 15:25	10/01/08 08:24	53469-21-9	
PCB-1248 (Aroclor 1248)	**596**	ug/kg	150	57.0	3	09/23/08 15:25	10/01/08 08:24	12672-29-6	
PCB-1254 (Aroclor 1254)	**295**	ug/kg	150	57.0	3	09/23/08 15:25	10/01/08 08:24	11097-69-1	
PCB-1260 (Aroclor 1260)	**<57.0**	ug/kg	150	57.0	3	09/23/08 15:25	10/01/08 08:24	11096-82-5	
PCB, Total	**890**	ug/kg	150	57.0	3	09/23/08 15:25	10/01/08 08:24	1336-36-3	
Tetrachloro-m-xylene (S)	91	%	40-136		3	09/23/08 15:25	10/01/08 08:24	877-09-8	
Decachlorobiphenyl (S)	96	%	47-145		3	09/23/08 15:25	10/01/08 08:24	2051-24-3	
Lipid	Analytical Method: Pace Lipid								
Lipid	**1.3**	%		0.10	1		09/25/08 09:53		

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ANALYTICAL RESULTS

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 408619

Sample: BL-IH-AC8-G, 8/27/08 **Lab ID: 408619008** Collected: 08/27/08 00:00 Received: 09/05/08 14:14 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCBs, Tissue	Analytical Method: EPA 8082 Preparation Method: EPA 3540								
PCB-1016 (Aroclor 1016)	**<19.0**	ug/kg	50.0	19.0	1	09/23/08 15:25	10/01/08 09:48	12674-11-2	
PCB-1221 (Aroclor 1221)	**<19.0**	ug/kg	50.0	19.0	1	09/23/08 15:25	10/01/08 09:48	11104-28-2	
PCB-1232 (Aroclor 1232)	**<19.0**	ug/kg	50.0	19.0	1	09/23/08 15:25	10/01/08 09:48	11141-16-5	
PCB-1242 (Aroclor 1242)	**<19.0**	ug/kg	50.0	19.0	1	09/23/08 15:25	10/01/08 09:48	53469-21-9	
PCB-1248 (Aroclor 1248)	**134**	ug/kg	50.0	19.0	1	09/23/08 15:25	10/01/08 09:48	12672-29-6	
PCB-1254 (Aroclor 1254)	**109**	ug/kg	50.0	19.0	1	09/23/08 15:25	10/01/08 09:48	11097-69-1	
PCB-1260 (Aroclor 1260)	**<19.0**	ug/kg	50.0	19.0	1	09/23/08 15:25	10/01/08 09:48	11096-82-5	
PCB, Total	**243**	ug/kg	50.0	19.0	1	09/23/08 15:25	10/01/08 09:48	1336-36-3	
Tetrachloro-m-xylene (S)	96	%	40-136		1	09/23/08 15:25	10/01/08 09:48	877-09-8	
Decachlorobiphenyl (S)	96	%	47-145		1	09/23/08 15:25	10/01/08 09:48	2051-24-3	
Lipid	Analytical Method: Pace Lipid								
Lipid	**0.63**	%		0.10	1		09/25/08 09:54		

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ANALYTICAL RESULTS

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 408619

Sample: BL-IH-CC1-G, 9/2/08 **Lab ID: 408619009** Collected: 09/02/08 00:00 Received: 09/05/08 14:14 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCBs, Tissue	Analytical Method: EPA 8082 Preparation Method: EPA 3540								
PCB-1016 (Aroclor 1016)	**<1900**	ug/kg	5000	1900	100	09/23/08 15:25	10/01/08 10:16	12674-11-2	
PCB-1221 (Aroclor 1221)	**<1900**	ug/kg	5000	1900	100	09/23/08 15:25	10/01/08 10:16	11104-28-2	
PCB-1232 (Aroclor 1232)	**<1900**	ug/kg	5000	1900	100	09/23/08 15:25	10/01/08 10:16	11141-16-5	
PCB-1242 (Aroclor 1242)	**<1900**	ug/kg	5000	1900	100	09/23/08 15:25	10/01/08 10:16	53469-21-9	
PCB-1248 (Aroclor 1248)	**11500**	ug/kg	5000	1900	100	09/23/08 15:25	10/01/08 10:16	12672-29-6	
PCB-1254 (Aroclor 1254)	**7810**	ug/kg	5000	1900	100	09/23/08 15:25	10/01/08 10:16	11097-69-1	
PCB-1260 (Aroclor 1260)	**<1900**	ug/kg	5000	1900	100	09/23/08 15:25	10/01/08 10:16	11096-82-5	
PCB, Total	**19400**	ug/kg	5000	1900	100	09/23/08 15:25	10/01/08 10:16	1336-36-3	
Tetrachloro-m-xylene (S)	0	%	40-136		100	09/23/08 15:25	10/01/08 10:16	877-09-8	S4
Decachlorobiphenyl (S)	0	%	47-145		100	09/23/08 15:25	10/01/08 10:16	2051-24-3	S4
Lipid	Analytical Method: Pace Lipid								
Lipid	**12.2**	%		0.10	1		09/25/08 09:54		

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ANALYTICAL RESULTS

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 408619

Sample: BL-IH-SB8-G, 9/2/08 **Lab ID: 408619010** Collected: 09/02/08 00:00 Received: 09/05/08 14:14 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCBs, Tissue	Analytical Method: EPA 8082 Preparation Method: EPA 3540								
PCB-1016 (Aroclor 1016)	**<190**	ug/kg	500	190	10	09/23/08 15:25	10/01/08 10:44	12674-11-2	
PCB-1221 (Aroclor 1221)	**<190**	ug/kg	500	190	10	09/23/08 15:25	10/01/08 10:44	11104-28-2	
PCB-1232 (Aroclor 1232)	**<190**	ug/kg	500	190	10	09/23/08 15:25	10/01/08 10:44	11141-16-5	
PCB-1242 (Aroclor 1242)	**<190**	ug/kg	500	190	10	09/23/08 15:25	10/01/08 10:44	53469-21-9	
PCB-1248 (Aroclor 1248)	**1520**	ug/kg	500	190	10	09/23/08 15:25	10/01/08 10:44	12672-29-6	
PCB-1254 (Aroclor 1254)	**1090**	ug/kg	500	190	10	09/23/08 15:25	10/01/08 10:44	11097-69-1	
PCB-1260 (Aroclor 1260)	**221J**	ug/kg	500	190	10	09/23/08 15:25	10/01/08 10:44	11096-82-5	
PCB, Total	**2830**	ug/kg	500	190	10	09/23/08 15:25	10/01/08 10:44	1336-36-3	
Tetrachloro-m-xylene (S)	95	%	40-136		10	09/23/08 15:25	10/01/08 10:44	877-09-8	
Decachlorobiphenyl (S)	102	%	47-145		10	09/23/08 15:25	10/01/08 10:44	2051-24-3	
Lipid	Analytical Method: Pace Lipid								
Lipid	**1.8**	%		0.10	1		09/25/08 09:54		

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ANALYTICAL RESULTS

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 408619

Sample: BL-LR-AC3-G, 9/3/08 **Lab ID: 408619011** Collected: 09/03/08 00:00 Received: 09/05/08 14:14 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCBs, Tissue	Analytical Method: EPA 8082 Preparation Method: EPA 3540								
PCB-1016 (Aroclor 1016)	**<19.0**	ug/kg	50.0	19.0	1	09/23/08 15:25	10/01/08 11:12	12674-11-2	
PCB-1221 (Aroclor 1221)	**<19.0**	ug/kg	50.0	19.0	1	09/23/08 15:25	10/01/08 11:12	11104-28-2	
PCB-1232 (Aroclor 1232)	**<19.0**	ug/kg	50.0	19.0	1	09/23/08 15:25	10/01/08 11:12	11141-16-5	
PCB-1242 (Aroclor 1242)	**<19.0**	ug/kg	50.0	19.0	1	09/23/08 15:25	10/01/08 11:12	53469-21-9	
PCB-1248 (Aroclor 1248)	**243**	ug/kg	50.0	19.0	1	09/23/08 15:25	10/01/08 11:12	12672-29-6	
PCB-1254 (Aroclor 1254)	**192**	ug/kg	50.0	19.0	1	09/23/08 15:25	10/01/08 11:12	11097-69-1	
PCB-1260 (Aroclor 1260)	**22.6J**	ug/kg	50.0	19.0	1	09/23/08 15:25	10/01/08 11:12	11096-82-5	
PCB, Total	**458**	ug/kg	50.0	19.0	1	09/23/08 15:25	10/01/08 11:12	1336-36-3	
Tetrachloro-m-xylene (S)	106	%	40-136		1	09/23/08 15:25	10/01/08 11:12	877-09-8	
Decachlorobiphenyl (S)	107	%	47-145		1	09/23/08 15:25	10/01/08 11:12	2051-24-3	
Lipid	Analytical Method: Pace Lipid								
Lipid	**5.5**	%		0.10	1		09/25/08 09:54		

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ANALYTICAL RESULTS

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 408619

Sample: BL-LR-AC4-G, 9/3/08 **Lab ID: 408619012** Collected: 09/03/08 00:00 Received: 09/05/08 14:14 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCBs, Tissue	Analytical Method: EPA 8082 Preparation Method: EPA 3540								
PCB-1016 (Aroclor 1016)	**<3800**	ug/kg	10000	3800	200	09/23/08 15:25	10/01/08 11:40	12674-11-2	
PCB-1221 (Aroclor 1221)	**<3800**	ug/kg	10000	3800	200	09/23/08 15:25	10/01/08 11:40	11104-28-2	
PCB-1232 (Aroclor 1232)	**<3800**	ug/kg	10000	3800	200	09/23/08 15:25	10/01/08 11:40	11141-16-5	
PCB-1242 (Aroclor 1242)	**<3800**	ug/kg	10000	3800	200	09/23/08 15:25	10/01/08 11:40	53469-21-9	
PCB-1248 (Aroclor 1248)	**13200**	ug/kg	10000	3800	200	09/23/08 15:25	10/01/08 11:40	12672-29-6	
PCB-1254 (Aroclor 1254)	**27500**	ug/kg	10000	3800	200	09/23/08 15:25	10/01/08 11:40	11097-69-1	
PCB-1260 (Aroclor 1260)	**4190J**	ug/kg	10000	3800	200	09/23/08 15:25	10/01/08 11:40	11096-82-5	
PCB, Total	**44900**	ug/kg	10000	3800	200	09/23/08 15:25	10/01/08 11:40	1336-36-3	
Tetrachloro-m-xylene (S)	0	%	40-136		200	09/23/08 15:25	10/01/08 11:40	877-09-8	S4
Decachlorobiphenyl (S)	0	%	47-145		200	09/23/08 15:25	10/01/08 11:40	2051-24-3	S4
Lipid	Analytical Method: Pace Lipid								
Lipid	**9.0**	%		0.10	1		09/25/08 09:55		

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ANALYTICAL RESULTS

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 408619

Sample: BL-LR-AC5-G, 9/3/08 **Lab ID: 408619013** Collected: 09/03/08 00:00 Received: 09/05/08 14:14 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCBs, Tissue	Analytical Method: EPA 8082 Preparation Method: EPA 3540								
PCB-1016 (Aroclor 1016)	**<1900**	ug/kg	5000	1900	100	09/23/08 15:25	10/01/08 12:09	12674-11-2	
PCB-1221 (Aroclor 1221)	**<1900**	ug/kg	5000	1900	100	09/23/08 15:25	10/01/08 12:09	11104-28-2	
PCB-1232 (Aroclor 1232)	**<1900**	ug/kg	5000	1900	100	09/23/08 15:25	10/01/08 12:09	11141-16-5	
PCB-1242 (Aroclor 1242)	**<1900**	ug/kg	5000	1900	100	09/23/08 15:25	10/01/08 12:09	53469-21-9	
PCB-1248 (Aroclor 1248)	**10300**	ug/kg	5000	1900	100	09/23/08 15:25	10/01/08 12:09	12672-29-6	
PCB-1254 (Aroclor 1254)	**8150**	ug/kg	5000	1900	100	09/23/08 15:25	10/01/08 12:09	11097-69-1	
PCB-1260 (Aroclor 1260)	**<1900**	ug/kg	5000	1900	100	09/23/08 15:25	10/01/08 12:09	11096-82-5	
PCB, Total	**18400**	ug/kg	5000	1900	100	09/23/08 15:25	10/01/08 12:09	1336-36-3	
Tetrachloro-m-xylene (S)	0	%	40-136		100	09/23/08 15:25	10/01/08 12:09	877-09-8	S4
Decachlorobiphenyl (S)	0	%	47-145		100	09/23/08 15:25	10/01/08 12:09	2051-24-3	S4
Lipid	Analytical Method: Pace Lipid								
Lipid	**6.4**	%		0.10	1		09/25/08 09:55		

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ANALYTICAL RESULTS

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 408619

Sample: BL-LR-AC6-G, 9/3/08 **Lab ID: 408619014** Collected: 09/03/08 00:00 Received: 09/05/08 14:14 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCBs, Tissue	Analytical Method: EPA 8082 Preparation Method: EPA 3540								
PCB-1016 (Aroclor 1016)	**<380**	ug/kg	1000	380	20	09/23/08 15:25	10/01/08 12:37	12674-11-2	
PCB-1221 (Aroclor 1221)	**<380**	ug/kg	1000	380	20	09/23/08 15:25	10/01/08 12:37	11104-28-2	
PCB-1232 (Aroclor 1232)	**<380**	ug/kg	1000	380	20	09/23/08 15:25	10/01/08 12:37	11141-16-5	
PCB-1242 (Aroclor 1242)	**<380**	ug/kg	1000	380	20	09/23/08 15:25	10/01/08 12:37	53469-21-9	
PCB-1248 (Aroclor 1248)	**3070**	ug/kg	1000	380	20	09/23/08 15:25	10/01/08 12:37	12672-29-6	
PCB-1254 (Aroclor 1254)	**1390**	ug/kg	1000	380	20	09/23/08 15:25	10/01/08 12:37	11097-69-1	
PCB-1260 (Aroclor 1260)	**<380**	ug/kg	1000	380	20	09/23/08 15:25	10/01/08 12:37	11096-82-5	
PCB, Total	**4460**	ug/kg	1000	380	20	09/23/08 15:25	10/01/08 12:37	1336-36-3	
Tetrachloro-m-xylene (S)	0	%	40-136		20	09/23/08 15:25	10/01/08 12:37	877-09-8	S4
Decachlorobiphenyl (S)	0	%	47-145		20	09/23/08 15:25	10/01/08 12:37	2051-24-3	S4
Lipid	Analytical Method: Pace Lipid								
Lipid	**3.6**	%		0.10	1		09/25/08 09:55		

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ANALYTICAL RESULTS

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 408619

Sample: BL-LR-AC7-G, 9/3/08 **Lab ID: 408619015** Collected: 09/03/08 00:00 Received: 09/05/08 14:14 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCBs, Tissue	Analytical Method: EPA 8082 Preparation Method: EPA 3540								
PCB-1016 (Aroclor 1016)	**<95.0**	ug/kg	250	95.0	5	09/23/08 15:25	10/01/08 13:05	12674-11-2	
PCB-1221 (Aroclor 1221)	**<95.0**	ug/kg	250	95.0	5	09/23/08 15:25	10/01/08 13:05	11104-28-2	
PCB-1232 (Aroclor 1232)	**<95.0**	ug/kg	250	95.0	5	09/23/08 15:25	10/01/08 13:05	11141-16-5	
PCB-1242 (Aroclor 1242)	**<95.0**	ug/kg	250	95.0	5	09/23/08 15:25	10/01/08 13:05	53469-21-9	
PCB-1248 (Aroclor 1248)	**1310**	ug/kg	250	95.0	5	09/23/08 15:25	10/01/08 13:05	12672-29-6	
PCB-1254 (Aroclor 1254)	**661**	ug/kg	250	95.0	5	09/23/08 15:25	10/01/08 13:05	11097-69-1	
PCB-1260 (Aroclor 1260)	**<95.0**	ug/kg	250	95.0	5	09/23/08 15:25	10/01/08 13:05	11096-82-5	
PCB, Total	**1970**	ug/kg	250	95.0	5	09/23/08 15:25	10/01/08 13:05	1336-36-3	
Tetrachloro-m-xylene (S)	87	%	40-136		5	09/23/08 15:25	10/01/08 13:05	877-09-8	
Decachlorobiphenyl (S)	95	%	47-145		5	09/23/08 15:25	10/01/08 13:05	2051-24-3	
Lipid	Analytical Method: Pace Lipid								
Lipid	**0.82**	%		0.10	1		09/25/08 09:55		

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ANALYTICAL RESULTS

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 408619

Sample: BL-LR-AC8-G, 9/3/08 **Lab ID: 408619016** Collected: 09/03/08 00:00 Received: 09/05/08 14:14 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCBs, Tissue	Analytical Method: EPA 8082 Preparation Method: EPA 3540								
PCB-1016 (Aroclor 1016)	**<95.0**	ug/kg	250	95.0	5	09/23/08 15:25	10/01/08 13:33	12674-11-2	
PCB-1221 (Aroclor 1221)	**<95.0**	ug/kg	250	95.0	5	09/23/08 15:25	10/01/08 13:33	11104-28-2	
PCB-1232 (Aroclor 1232)	**<95.0**	ug/kg	250	95.0	5	09/23/08 15:25	10/01/08 13:33	11141-16-5	
PCB-1242 (Aroclor 1242)	**<95.0**	ug/kg	250	95.0	5	09/23/08 15:25	10/01/08 13:33	53469-21-9	
PCB-1248 (Aroclor 1248)	**1200**	ug/kg	250	95.0	5	09/23/08 15:25	10/01/08 13:33	12672-29-6	
PCB-1254 (Aroclor 1254)	**682**	ug/kg	250	95.0	5	09/23/08 15:25	10/01/08 13:33	11097-69-1	
PCB-1260 (Aroclor 1260)	**<95.0**	ug/kg	250	95.0	5	09/23/08 15:25	10/01/08 13:33	11096-82-5	
PCB, Total	**1890**	ug/kg	250	95.0	5	09/23/08 15:25	10/01/08 13:33	1336-36-3	
Tetrachloro-m-xylene (S)	95	%	40-136		5	09/23/08 15:25	10/01/08 13:33	877-09-8	
Decachlorobiphenyl (S)	100	%	47-145		5	09/23/08 15:25	10/01/08 13:33	2051-24-3	
Lipid	Analytical Method: Pace Lipid								
Lipid	**1.1**	%		0.10	1		09/25/08 09:55		

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ANALYTICAL RESULTS

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 408619

Sample: BL-LR-JWS5-G, 9/3/08 **Lab ID: 408619017** Collected: 09/03/08 00:00 Received: 09/05/08 14:14 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCBs, Tissue	Analytical Method: EPA 8082 Preparation Method: EPA 3540								
PCB-1016 (Aroclor 1016)	**<76.0**	ug/kg	200	76.0	4	09/23/08 15:25	10/01/08 14:01	12674-11-2	
PCB-1221 (Aroclor 1221)	**<76.0**	ug/kg	200	76.0	4	09/23/08 15:25	10/01/08 14:01	11104-28-2	
PCB-1232 (Aroclor 1232)	**<76.0**	ug/kg	200	76.0	4	09/23/08 15:25	10/01/08 14:01	11141-16-5	
PCB-1242 (Aroclor 1242)	**<76.0**	ug/kg	200	76.0	4	09/23/08 15:25	10/01/08 14:01	53469-21-9	
PCB-1248 (Aroclor 1248)	**584**	ug/kg	200	76.0	4	09/23/08 15:25	10/01/08 14:01	12672-29-6	
PCB-1254 (Aroclor 1254)	**384**	ug/kg	200	76.0	4	09/23/08 15:25	10/01/08 14:01	11097-69-1	
PCB-1260 (Aroclor 1260)	**<76.0**	ug/kg	200	76.0	4	09/23/08 15:25	10/01/08 14:01	11096-82-5	
PCB, Total	**967**	ug/kg	200	76.0	4	09/23/08 15:25	10/01/08 14:01	1336-36-3	
Tetrachloro-m-xylene (S)	94	%	40-136		4	09/23/08 15:25	10/01/08 14:01	877-09-8	
Decachlorobiphenyl (S)	99	%	47-145		4	09/23/08 15:25	10/01/08 14:01	2051-24-3	
Lipid	Analytical Method: Pace Lipid								
Lipid	**0.40**	%		0.10	1		09/25/08 09:56		

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QUALITY CONTROL DATA

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 408619

QC Batch: OEXT/2743 Analysis Method: EPA 8082
QC Batch Method: EPA 3540 Analysis Description: 8082 GCS Tissue Pesticides
Associated Lab Samples: 408619001, 408619002, 408619003, 408619004, 408619005, 408619006, 408619007, 408619008, 408619009, 408619010, 408619011, 408619012, 408619013, 408619014, 408619015, 408619016, 408619017

METHOD BLANK: 79777 Matrix: Tissue
Associated Lab Samples: 408619001, 408619002, 408619003, 408619004, 408619005, 408619006, 408619007, 408619008, 408619009, 408619010, 408619011, 408619012, 408619013, 408619014, 408619015, 408619016, 408619017

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg	<19.0	50.0	10/01/08 03:44	
PCB-1221 (Aroclor 1221)	ug/kg	<19.0	50.0	10/01/08 03:44	
PCB-1232 (Aroclor 1232)	ug/kg	<19.0	50.0	10/01/08 03:44	
PCB-1242 (Aroclor 1242)	ug/kg	<19.0	50.0	10/01/08 03:44	
PCB-1248 (Aroclor 1248)	ug/kg	<19.0	50.0	10/01/08 03:44	
PCB-1254 (Aroclor 1254)	ug/kg	<19.0	50.0	10/01/08 03:44	
PCB-1260 (Aroclor 1260)	ug/kg	<19.0	50.0	10/01/08 03:44	
Decachlorobiphenyl (S)	%	98	47-145	10/01/08 03:44	
Tetrachloro-m-xylene (S)	%	97	40-136	10/01/08 03:44	

LABORATORY CONTROL SAMPLE: 79778

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg		<19.0			
PCB-1221 (Aroclor 1221)	ug/kg		<19.0			
PCB-1232 (Aroclor 1232)	ug/kg		<19.0			
PCB-1242 (Aroclor 1242)	ug/kg	250	264	105	40-128	
PCB-1248 (Aroclor 1248)	ug/kg		<19.0			
PCB-1254 (Aroclor 1254)	ug/kg		<19.0			
PCB-1260 (Aroclor 1260)	ug/kg		<19.0			
Decachlorobiphenyl (S)	%			96	47-145	
Tetrachloro-m-xylene (S)	%			96	40-136	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 79779 79780

Parameter	Units	408619001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
PCB-1016 (Aroclor 1016)	ug/kg	<380			<380	<380					56	
PCB-1221 (Aroclor 1221)	ug/kg	<380			<380	<380					56	
PCB-1232 (Aroclor 1232)	ug/kg	<380			<380	<380					56	
PCB-1242 (Aroclor 1242)	ug/kg	<380	1000	1000	<380	<380	0	0	43-130		56	M0
PCB-1248 (Aroclor 1248)	ug/kg	2630			3960	3460				14	56	
PCB-1254 (Aroclor 1254)	ug/kg	1680			2220	1890				16	56	
PCB-1260 (Aroclor 1260)	ug/kg	<380			<380	<380					56	
Decachlorobiphenyl (S)	%						0	0	47-145			S4
Tetrachloro-m-xylene (S)	%						0	0	40-136			S4

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QUALITY CONTROL DATA

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 408619

QC Batch: OEXT/2755 Analysis Method: Pace Lipid
QC Batch Method: Pace Lipid Analysis Description: LIPID
Associated Lab Samples: 408619001, 408619002, 408619003, 408619004, 408619005, 408619006, 408619007, 408619008, 408619009, 408619010, 408619011, 408619012, 408619013, 408619014, 408619015, 408619016, 408619017

METHOD BLANK: 80012 Matrix: Tissue
Associated Lab Samples: 408619001, 408619002, 408619003, 408619004, 408619005, 408619006, 408619007, 408619008, 408619009, 408619010, 408619011, 408619012, 408619013, 408619014, 408619015, 408619016, 408619017

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lipid	%	<0.10		09/25/08 09:47	

SAMPLE DUPLICATE: 80013

Parameter	Units	408619001 Result	Dup Result	RPD	Max RPD	Qualifiers
Lipid	%	1.1	1.1	4	20	

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QUALIFIERS

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 408619

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

Pace Analytical is NELAP accredited. Contact your Pace PM for the current list of accredited analytes.

ANALYTE QUALIFIERS

M0	Matrix spike recovery was outside laboratory control limits.
S4	Surrogate recovery not evaluated against control limits due to sample dilution.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 408619

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
408619001	**BL-IH-SB6-G, 8/27/08**	EPA 3540	OEXT/2743	EPA 8082	GCSV/1925
408619002	**BL-IH-SB7-G, 8/27/08**	EPA 3540	OEXT/2743	EPA 8082	GCSV/1925
408619003	**BL-IH-AC3-G, 8/27/08**	EPA 3540	OEXT/2743	EPA 8082	GCSV/1925
408619004	**BL-IH-AC4-G, 8/27/08**	EPA 3540	OEXT/2743	EPA 8082	GCSV/1925
408619005	**BL-IH-AC5-G, 8/27/08**	EPA 3540	OEXT/2743	EPA 8082	GCSV/1925
408619006	**BL-IH-AC6-G, 8/27/08**	EPA 3540	OEXT/2743	EPA 8082	GCSV/1925
408619007	**BL-IH-AC7-G, 8/27/08**	EPA 3540	OEXT/2743	EPA 8082	GCSV/1925
408619008	**BL-IH-AC8-G, 8/27/08**	EPA 3540	OEXT/2743	EPA 8082	GCSV/1925
408619009	**BL-IH-CC1-G, 9/2/08**	EPA 3540	OEXT/2743	EPA 8082	GCSV/1925
408619010	**BL-IH-SB8-G, 9/2/08**	EPA 3540	OEXT/2743	EPA 8082	GCSV/1925
408619011	**BL-LR-AC3-G, 9/3/08**	EPA 3540	OEXT/2743	EPA 8082	GCSV/1925
408619012	**BL-LR-AC4-G, 9/3/08**	EPA 3540	OEXT/2743	EPA 8082	GCSV/1925
408619013	**BL-LR-AC5-G, 9/3/08**	EPA 3540	OEXT/2743	EPA 8082	GCSV/1925
408619014	**BL-LR-AC6-G, 9/3/08**	EPA 3540	OEXT/2743	EPA 8082	GCSV/1925
408619015	**BL-LR-AC7-G, 9/3/08**	EPA 3540	OEXT/2743	EPA 8082	GCSV/1925
408619016	**BL-LR-AC8-G, 9/3/08**	EPA 3540	OEXT/2743	EPA 8082	GCSV/1925
408619017	**BL-LR-JWS5-G, 9/3/08**	EPA 3540	OEXT/2743	EPA 8082	GCSV/1925
408619001	**BL-IH-SB6-G, 8/27/08**	Pace Lipid	OEXT/2755		
408619002	**BL-IH-SB7-G, 8/27/08**	Pace Lipid	OEXT/2755		
408619003	**BL-IH-AC3-G, 8/27/08**	Pace Lipid	OEXT/2755		
408619004	**BL-IH-AC4-G, 8/27/08**	Pace Lipid	OEXT/2755		
408619005	**BL-IH-AC5-G, 8/27/08**	Pace Lipid	OEXT/2755		
408619006	**BL-IH-AC6-G, 8/27/08**	Pace Lipid	OEXT/2755		
408619007	**BL-IH-AC7-G, 8/27/08**	Pace Lipid	OEXT/2755		
408619008	**BL-IH-AC8-G, 8/27/08**	Pace Lipid	OEXT/2755		
408619009	**BL-IH-CC1-G, 9/2/08**	Pace Lipid	OEXT/2755		
408619010	**BL-IH-SB8-G, 9/2/08**	Pace Lipid	OEXT/2755		
408619011	**BL-LR-AC3-G, 9/3/08**	Pace Lipid	OEXT/2755		
408619012	**BL-LR-AC4-G, 9/3/08**	Pace Lipid	OEXT/2755		
408619013	**BL-LR-AC5-G, 9/3/08**	Pace Lipid	OEXT/2755		
408619014	**BL-LR-AC6-G, 9/3/08**	Pace Lipid	OEXT/2755		
408619015	**BL-LR-AC7-G, 9/3/08**	Pace Lipid	OEXT/2755		
408619016	**BL-LR-AC8-G, 9/3/08**	Pace Lipid	OEXT/2755		
408619017	**BL-LR-JWS5-G, 9/3/08**	Pace Lipid	OEXT/2755		

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October 17, 2008

BRANDY PROFFITT
POLLUTION RISK SERVICES
7870 EAST KEMPER ROAD
SUITE 240
Cincinnati, OH 45249

RE: Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 409244

Dear BRANDY PROFFITT:
Enclosed are the analytical results for sample(s) received by the laboratory on September 19, 2008. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Tod Noltemeyer

Tod Noltemeyer

tod.noltemeyer@pacelabs.com
Project Manager

Enclosures

REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 409244

Green Bay Certification IDs

Louisiana Certification #: 04169
Louisiana Certification #: 04168
Kentucky Certification #: 83
Kentucky Certification #: 82
Wisconsin DATCP Certification #: 105-444
Wisconsin DATCP Certification #: 105-444
Wisconsin Certification #: 405132750
Wisconsin Certification #: 405132750
South Carolina Certification #: 83006001
South Carolina Certification #: 83006001
Minnesota Certification #: 055-999-334
Minnesota Certification #: 055-999-334
North Carolina Certification #: 503
North Carolina Certification #: 503
North Dakota Certification #: R-200
North Dakota Certification #: R-150
New York Certification #: 11888
New York Certification #: 11887
Illinois Certification #: 200051
Illinois Certification #: 200050
Florida (NELAP) Certification #: E87951
Florida (NELAP) Certification #: E87948

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SAMPLE SUMMARY

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 409244

Lab ID	Sample ID	Matrix	Date Collected	Date Received
409244001	BL-MR1-SB4-G, 9/16/08	Tissue	09/16/08 00:00	09/19/08 13:40
409244002	BL-MR1-SB5-G, 9/16/08	Tissue	09/16/08 00:00	09/19/08 13:40
409244003	BL-MR1-SB6-G, 9/16/08	Tissue	09/16/08 00:00	09/19/08 13:40
409244004	BL-MR1-SB7-G, 9/16/08	Tissue	09/16/08 00:00	09/19/08 13:40
409244005	BL-MR1-SB8-G, 9/16/08	Tissue	09/16/08 00:00	09/19/08 13:40
409244006	BL-MR1-W1-G, 9/16/08	Tissue	09/16/08 00:00	09/19/08 13:40
409244007	BL-MR1-W2-G, 9/16/08	Tissue	09/16/08 00:00	09/19/08 13:40
409244008	BL-MR1-W3-G, 9/16/08	Tissue	09/16/08 00:00	09/19/08 13:40
409244009	BL-MR1-W4-G, 9/16/08	Tissue	09/16/08 00:00	09/19/08 13:40
409244010	BL-MR1-W5-G, 9/16/08	Tissue	09/16/08 00:00	09/19/08 13:40
409244011	BL-MR1-W6-G, 9/16/08	Tissue	09/16/08 00:00	09/19/08 13:40
409244012	BL-MR1-W7-G, 9/16/08	Tissue	09/16/08 00:00	09/19/08 13:40
409244013	BL-MR1-W8-G, 9/16/08	Tissue	09/16/08 00:00	09/19/08 13:40
409244014	BL-MR1-AWS1-G, 9/16/08	Tissue	09/16/08 00:00	09/19/08 13:40
409244015	BL-MR1-AWS2-G, 9/16/08	Tissue	09/16/08 00:00	09/19/08 13:40
409244016	BL-MR1-AWS3-G, 9/16/08	Tissue	09/16/08 00:00	09/19/08 13:40
409244017	BL-MR1-AWS4-G, 9/17/08	Tissue	09/17/08 00:00	09/19/08 13:40
409244018	BL-MR1-AWS5-G, 9/17/08	Tissue	09/17/08 00:00	09/19/08 13:40
409244019	BL-MR1-AWS6-G, 9/17/08	Tissue	09/17/08 00:00	09/19/08 13:40
409244020	BL-MR1-AWS7-G, 9/17/08	Tissue	09/17/08 00:00	09/19/08 13:40

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SAMPLE ANALYTE COUNT

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 409244

Lab ID	Sample ID	Method	Analysts	Analytes Reported
409244001	BL-MR1-SB4-G, 9/16/08	EPA 8082	BDS	10
		Pace Lipid	DAL	1
409244002	BL-MR1-SB5-G, 9/16/08	EPA 8082	BDS	10
		Pace Lipid	DAL	1
409244003	BL-MR1-SB6-G, 9/16/08	EPA 8082	BDS	10
		Pace Lipid	DAL	1
409244004	BL-MR1-SB7-G, 9/16/08	EPA 8082	BDS	10
		Pace Lipid	DAL	1
409244005	BL-MR1-SB8-G, 9/16/08	EPA 8082	BDS	10
		Pace Lipid	DAL	1
409244006	BL-MR1-W1-G, 9/16/08	EPA 8082	BDS	10
		Pace Lipid	DAL	1
409244007	BL-MR1-W2-G, 9/16/08	EPA 8082	BDS	10
		Pace Lipid	DAL	1
409244008	BL-MR1-W3-G, 9/16/08	EPA 8082	BDS	10
		Pace Lipid	DAL	1
409244009	BL-MR1-W4-G, 9/16/08	EPA 8082	BDS	10
		Pace Lipid	DAL	1
409244010	BL-MR1-W5-G, 9/16/08	EPA 8082	BDS	10
		Pace Lipid	DAL	1
409244011	BL-MR1-W6-G, 9/16/08	EPA 8082	BDS	10
		Pace Lipid	DAL	1
409244012	BL-MR1-W7-G, 9/16/08	EPA 8082	BDS	10
		Pace Lipid	DAL	1
409244013	BL-MR1-W8-G, 9/16/08	EPA 8082	BDS	10
		Pace Lipid	DAL	1
409244014	BL-MR1-AWS1-G, 9/16/08	EPA 8082	BDS	10
		Pace Lipid	DAL	1
409244015	BL-MR1-AWS2-G, 9/16/08	EPA 8082	BDS	10
		Pace Lipid	DAL	1
409244016	BL-MR1-AWS3-G, 9/16/08	EPA 8082	BDS	10
		Pace Lipid	DAL	1
409244017	BL-MR1-AWS4-G, 9/17/08	EPA 8082	BDS	10
		Pace Lipid	DAL	1
409244018	BL-MR1-AWS5-G, 9/17/08	EPA 8082	BDS	10
		Pace Lipid	DAL	1
409244019	BL-MR1-AWS6-G, 9/17/08	EPA 8082	BDS	10

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SAMPLE ANALYTE COUNT

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 409244

Lab ID	Sample ID	Method	Analysts	Analytes Reported
		Pace Lipid	DAL	1
409244020	**BL-MR1-AWS7-G, 9/17/08**	EPA 8082	BDS	10
		Pace Lipid	DAL	1

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PROJECT NARRATIVE

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 409244

Method: **EPA 8082**
Description: 8082 GCS PCBs, Tissue
Client: POLLUTION RISK SERVICES
Date: October 17, 2008

General Information:
20 samples were analyzed for EPA 8082. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 3540 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

QC Batch: OEXT/2811

S4: Surrogate recovery not evaluated against control limits due to sample dilution.

- BL-MR1-AWS2-G, 9/16/08 (Lab ID: 409244015)
  - Decachlorobiphenyl (S)
  - Tetrachloro-m-xylene (S)
- BL-MR1-AWS4-G, 9/17/08 (Lab ID: 409244017)
  - Decachlorobiphenyl (S)
  - Tetrachloro-m-xylene (S)
- BL-MR1-AWS5-G, 9/17/08 (Lab ID: 409244018)
  - Decachlorobiphenyl (S)
  - Tetrachloro-m-xylene (S)
- BL-MR1-AWS6-G, 9/17/08 (Lab ID: 409244019)
  - Decachlorobiphenyl (S)
  - Tetrachloro-m-xylene (S)
- BL-MR1-AWS7-G, 9/17/08 (Lab ID: 409244020)
  - Decachlorobiphenyl (S)
  - Tetrachloro-m-xylene (S)
- BL-MR1-SB4-G, 9/16/08 (Lab ID: 409244001)
  - Decachlorobiphenyl (S)
  - Tetrachloro-m-xylene (S)
- BL-MR1-SB5-G, 9/16/08 (Lab ID: 409244002)
  - Decachlorobiphenyl (S)
  - Tetrachloro-m-xylene (S)
- BL-MR1-SB6-G, 9/16/08 (Lab ID: 409244003)
  - Decachlorobiphenyl (S)
  - Tetrachloro-m-xylene (S)
- BL-MR1-SB7-G, 9/16/08 (Lab ID: 409244004)

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(920)469-2436

PROJECT NARRATIVE

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 409244

Method: **EPA 8082**
Description: 8082 GCS PCBs, Tissue
Client: POLLUTION RISK SERVICES
Date: October 17, 2008

QC Batch: OEXT/2811

S4: Surrogate recovery not evaluated against control limits due to sample dilution.

- Decachlorobiphenyl (S)
- Tetrachloro-m-xylene (S)
- BL-MR1-SB8-G, 9/16/08 (Lab ID: 409244005)
  - Decachlorobiphenyl (S)
  - Tetrachloro-m-xylene (S)
- BL-MR1-W1-G, 9/16/08 (Lab ID: 409244006)
  - Decachlorobiphenyl (S)
  - Tetrachloro-m-xylene (S)
- BL-MR1-W2-G, 9/16/08 (Lab ID: 409244007)
  - Decachlorobiphenyl (S)
  - Tetrachloro-m-xylene (S)
- BL-MR1-W3-G, 9/16/08 (Lab ID: 409244008)
  - Decachlorobiphenyl (S)
  - Tetrachloro-m-xylene (S)
- BL-MR1-W4-G, 9/16/08 (Lab ID: 409244009)
  - Decachlorobiphenyl (S)
  - Tetrachloro-m-xylene (S)
- BL-MR1-W5-G, 9/16/08 (Lab ID: 409244010)
  - Decachlorobiphenyl (S)
  - Tetrachloro-m-xylene (S)
- BL-MR1-W6-G, 9/16/08 (Lab ID: 409244011)
  - Decachlorobiphenyl (S)
  - Tetrachloro-m-xylene (S)
- BL-MR1-W7-G, 9/16/08 (Lab ID: 409244012)
  - Decachlorobiphenyl (S)
  - Tetrachloro-m-xylene (S)
- BL-MR1-W8-G, 9/16/08 (Lab ID: 409244013)
  - Decachlorobiphenyl (S)
  - Tetrachloro-m-xylene (S)
- MS (Lab ID: 82622)
  - Decachlorobiphenyl (S)
  - Tetrachloro-m-xylene (S)
- MSD (Lab ID: 82623)
  - Decachlorobiphenyl (S)
  - Tetrachloro-m-xylene (S)

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

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PROJECT NARRATIVE

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 409244

Method: **EPA 8082**
Description: 8082 GCS PCBs, Tissue
Client: POLLUTION RISK SERVICES
Date: October 17, 2008

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: OEXT/2811

A matrix spike and matrix spike duplicate (MS/MSD) were performed on the following sample(s): 409244001

M0: Matrix spike recovery was outside laboratory control limits.

- MS (Lab ID: 82622)
  - PCB-1242 (Aroclor 1242)
- MSD (Lab ID: 82623)
  - PCB-1242 (Aroclor 1242)

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 409244

Method: **Pace Lipid**
Description: Lipid
Client: POLLUTION RISK SERVICES
Date: October 17, 2008

General Information:
20 samples were analyzed for Pace Lipid. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

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ANALYTICAL RESULTS

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 409244

Sample: BL-MR1-SB4-G, 9/16/08 **Lab ID: 409244001** Collected: 09/16/08 00:00 Received: 09/19/08 13:40 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCBs, Tissue	Analytical Method: EPA 8082 Preparation Method: EPA 3540								
PCB-1016 (Aroclor 1016)	**<380**	ug/kg	1000	380	20	09/30/08 13:33	10/13/08 17:25	12674-11-2	
PCB-1221 (Aroclor 1221)	**<380**	ug/kg	1000	380	20	09/30/08 13:33	10/13/08 17:25	11104-28-2	
PCB-1232 (Aroclor 1232)	**<380**	ug/kg	1000	380	20	09/30/08 13:33	10/13/08 17:25	11141-16-5	
PCB-1242 (Aroclor 1242)	**<380**	ug/kg	1000	380	20	09/30/08 13:33	10/13/08 17:25	53469-21-9	M0
PCB-1248 (Aroclor 1248)	**2460**	ug/kg	1000	380	20	09/30/08 13:33	10/13/08 17:25	12672-29-6	
PCB-1254 (Aroclor 1254)	**1750**	ug/kg	1000	380	20	09/30/08 13:33	10/13/08 17:25	11097-69-1	
PCB-1260 (Aroclor 1260)	**<380**	ug/kg	1000	380	20	09/30/08 13:33	10/13/08 17:25	11096-82-5	
PCB, Total	**4200**	ug/kg	1000	380	20	09/30/08 13:33	10/13/08 17:25	1336-36-3	
Tetrachloro-m-xylene (S)	0	%	40-136		20	09/30/08 13:33	10/13/08 17:25	877-09-8	S4
Decachlorobiphenyl (S)	0	%	47-145		20	09/30/08 13:33	10/13/08 17:25	2051-24-3	S4
Lipid	Analytical Method: Pace Lipid								
Lipid	**0.82**	%		0.10	1		10/06/08 08:01		

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ANALYTICAL RESULTS

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 409244

Sample: BL-MR1-SB5-G, 9/16/08 **Lab ID: 409244002** Collected: 09/16/08 00:00 Received: 09/19/08 13:40 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCBs, Tissue	Analytical Method: EPA 8082 Preparation Method: EPA 3540								
PCB-1016 (Aroclor 1016)	**<380**	ug/kg	1000	380	20	09/30/08 13:33	10/13/08 17:53	12674-11-2	
PCB-1221 (Aroclor 1221)	**<380**	ug/kg	1000	380	20	09/30/08 13:33	10/13/08 17:53	11104-28-2	
PCB-1232 (Aroclor 1232)	**<380**	ug/kg	1000	380	20	09/30/08 13:33	10/13/08 17:53	11141-16-5	
PCB-1242 (Aroclor 1242)	**<380**	ug/kg	1000	380	20	09/30/08 13:33	10/13/08 17:53	53469-21-9	
PCB-1248 (Aroclor 1248)	**4030**	ug/kg	1000	380	20	09/30/08 13:33	10/13/08 17:53	12672-29-6	
PCB-1254 (Aroclor 1254)	**3430**	ug/kg	1000	380	20	09/30/08 13:33	10/13/08 17:53	11097-69-1	
PCB-1260 (Aroclor 1260)	**<380**	ug/kg	1000	380	20	09/30/08 13:33	10/13/08 17:53	11096-82-5	
PCB, Total	**7460**	ug/kg	1000	380	20	09/30/08 13:33	10/13/08 17:53	1336-36-3	
Tetrachloro-m-xylene (S)	0	%	40-136		20	09/30/08 13:33	10/13/08 17:53	877-09-8	S4
Decachlorobiphenyl (S)	0	%	47-145		20	09/30/08 13:33	10/13/08 17:53	2051-24-3	S4
Lipid	Analytical Method: Pace Lipid								
Lipid	**0.76**	%		0.10	1		10/06/08 08:04		

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ANALYTICAL RESULTS

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 409244

Sample: BL-MR1-SB6-G, 9/16/08 **Lab ID: 409244003** Collected: 09/16/08 00:00 Received: 09/19/08 13:40 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCBs, Tissue	Analytical Method: EPA 8082 Preparation Method: EPA 3540								
PCB-1016 (Aroclor 1016)	**<570**	ug/kg	1500	570	30	09/30/08 13:33	10/13/08 18:21	12674-11-2	
PCB-1221 (Aroclor 1221)	**<570**	ug/kg	1500	570	30	09/30/08 13:33	10/13/08 18:21	11104-28-2	
PCB-1232 (Aroclor 1232)	**<570**	ug/kg	1500	570	30	09/30/08 13:33	10/13/08 18:21	11141-16-5	
PCB-1242 (Aroclor 1242)	**<570**	ug/kg	1500	570	30	09/30/08 13:33	10/13/08 18:21	53469-21-9	
PCB-1248 (Aroclor 1248)	**4970**	ug/kg	1500	570	30	09/30/08 13:33	10/13/08 18:21	12672-29-6	
PCB-1254 (Aroclor 1254)	**4320**	ug/kg	1500	570	30	09/30/08 13:33	10/13/08 18:21	11097-69-1	
PCB-1260 (Aroclor 1260)	**<570**	ug/kg	1500	570	30	09/30/08 13:33	10/13/08 18:21	11096-82-5	
PCB, Total	**9290**	ug/kg	1500	570	30	09/30/08 13:33	10/13/08 18:21	1336-36-3	
Tetrachloro-m-xylene (S)	0	%	40-136		30	09/30/08 13:33	10/13/08 18:21	877-09-8	S4
Decachlorobiphenyl (S)	0	%	47-145		30	09/30/08 13:33	10/13/08 18:21	2051-24-3	S4
Lipid	Analytical Method: Pace Lipid								
Lipid	**0.68**	%		0.10	1		10/06/08 08:04		

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ANALYTICAL RESULTS

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 409244

Sample: BL-MR1-SB7-G, 9/16/08 **Lab ID: 409244004** Collected: 09/16/08 00:00 Received: 09/19/08 13:40 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCBs, Tissue	Analytical Method: EPA 8082 Preparation Method: EPA 3540								
PCB-1016 (Aroclor 1016)	**<1900**	ug/kg	5000	1900	100	09/30/08 13:33	10/13/08 18:49	12674-11-2	
PCB-1221 (Aroclor 1221)	**<1900**	ug/kg	5000	1900	100	09/30/08 13:33	10/13/08 18:49	11104-28-2	
PCB-1232 (Aroclor 1232)	**<1900**	ug/kg	5000	1900	100	09/30/08 13:33	10/13/08 18:49	11141-16-5	
PCB-1242 (Aroclor 1242)	**<1900**	ug/kg	5000	1900	100	09/30/08 13:33	10/13/08 18:49	53469-21-9	
PCB-1248 (Aroclor 1248)	**9770**	ug/kg	5000	1900	100	09/30/08 13:33	10/13/08 18:49	12672-29-6	
PCB-1254 (Aroclor 1254)	**8450**	ug/kg	5000	1900	100	09/30/08 13:33	10/13/08 18:49	11097-69-1	
PCB-1260 (Aroclor 1260)	**<1900**	ug/kg	5000	1900	100	09/30/08 13:33	10/13/08 18:49	11096-82-5	
PCB, Total	**18200**	ug/kg	5000	1900	100	09/30/08 13:33	10/13/08 18:49	1336-36-3	
Tetrachloro-m-xylene (S)	0	%	40-136		100	09/30/08 13:33	10/13/08 18:49	877-09-8	S4
Decachlorobiphenyl (S)	0	%	47-145		100	09/30/08 13:33	10/13/08 18:49	2051-24-3	S4
Lipid	Analytical Method: Pace Lipid								
Lipid	**1.3**	%		0.10	1		10/06/08 08:05		

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ANALYTICAL RESULTS

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 409244

Sample: BL-MR1-SB8-G, 9/16/08 **Lab ID: 409244005** Collected: 09/16/08 00:00 Received: 09/19/08 13:40 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCBs, Tissue	Analytical Method: EPA 8082 Preparation Method: EPA 3540								
PCB-1016 (Aroclor 1016)	**<380**	ug/kg	1000	380	20	09/30/08 13:33	10/13/08 19:18	12674-11-2	
PCB-1221 (Aroclor 1221)	**<380**	ug/kg	1000	380	20	09/30/08 13:33	10/13/08 19:18	11104-28-2	
PCB-1232 (Aroclor 1232)	**<380**	ug/kg	1000	380	20	09/30/08 13:33	10/13/08 19:18	11141-16-5	
PCB-1242 (Aroclor 1242)	**<380**	ug/kg	1000	380	20	09/30/08 13:33	10/13/08 19:18	53469-21-9	
PCB-1248 (Aroclor 1248)	**2820**	ug/kg	1000	380	20	09/30/08 13:33	10/13/08 19:18	12672-29-6	
PCB-1254 (Aroclor 1254)	**2150**	ug/kg	1000	380	20	09/30/08 13:33	10/13/08 19:18	11097-69-1	
PCB-1260 (Aroclor 1260)	**<380**	ug/kg	1000	380	20	09/30/08 13:33	10/13/08 19:18	11096-82-5	
PCB, Total	**4970**	ug/kg	1000	380	20	09/30/08 13:33	10/13/08 19:18	1336-36-3	
Tetrachloro-m-xylene (S)	0	%	40-136		20	09/30/08 13:33	10/13/08 19:18	877-09-8	S4
Decachlorobiphenyl (S)	0	%	47-145		20	09/30/08 13:33	10/13/08 19:18	2051-24-3	S4
Lipid	Analytical Method: Pace Lipid								
Lipid	**0.83**	%		0.10	1		10/06/08 08:06		

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ANALYTICAL RESULTS

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 409244

Sample: BL-MR1-W1-G, 9/16/08 **Lab ID: 409244006** Collected: 09/16/08 00:00 Received: 09/19/08 13:40 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCBs, Tissue	Analytical Method: EPA 8082 Preparation Method: EPA 3540								
PCB-1016 (Aroclor 1016)	**<950**	ug/kg	2500	950	50	09/30/08 13:33	10/13/08 19:46	12674-11-2	
PCB-1221 (Aroclor 1221)	**<950**	ug/kg	2500	950	50	09/30/08 13:33	10/13/08 19:46	11104-28-2	
PCB-1232 (Aroclor 1232)	**<950**	ug/kg	2500	950	50	09/30/08 13:33	10/13/08 19:46	11141-16-5	
PCB-1242 (Aroclor 1242)	**<950**	ug/kg	2500	950	50	09/30/08 13:33	10/13/08 19:46	53469-21-9	
PCB-1248 (Aroclor 1248)	**10200**	ug/kg	2500	950	50	09/30/08 13:33	10/13/08 19:46	12672-29-6	
PCB-1254 (Aroclor 1254)	**6650**	ug/kg	2500	950	50	09/30/08 13:33	10/13/08 19:46	11097-69-1	
PCB-1260 (Aroclor 1260)	**<950**	ug/kg	2500	950	50	09/30/08 13:33	10/13/08 19:46	11096-82-5	
PCB, Total	**16800**	ug/kg	2500	950	50	09/30/08 13:33	10/13/08 19:46	1336-36-3	
Tetrachloro-m-xylene (S)	0	%	40-136		50	09/30/08 13:33	10/13/08 19:46	877-09-8	S4
Decachlorobiphenyl (S)	0	%	47-145		50	09/30/08 13:33	10/13/08 19:46	2051-24-3	S4
Lipid	Analytical Method: Pace Lipid								
Lipid	**2.3**	%		0.10	1		10/06/08 08:06		

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ANALYTICAL RESULTS

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 409244

Sample: BL-MR1-W2-G, 9/16/08 **Lab ID: 409244007** Collected: 09/16/08 00:00 Received: 09/19/08 13:40 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCBs, Tissue	Analytical Method: EPA 8082 Preparation Method: EPA 3540								
PCB-1016 (Aroclor 1016)	**<950**	ug/kg	2500	950	50	09/30/08 13:33	10/13/08 20:14	12674-11-2	
PCB-1221 (Aroclor 1221)	**<950**	ug/kg	2500	950	50	09/30/08 13:33	10/13/08 20:14	11104-28-2	
PCB-1232 (Aroclor 1232)	**<950**	ug/kg	2500	950	50	09/30/08 13:33	10/13/08 20:14	11141-16-5	
PCB-1242 (Aroclor 1242)	**<950**	ug/kg	2500	950	50	09/30/08 13:33	10/13/08 20:14	53469-21-9	
PCB-1248 (Aroclor 1248)	**10600**	ug/kg	2500	950	50	09/30/08 13:33	10/13/08 20:14	12672-29-6	
PCB-1254 (Aroclor 1254)	**5690**	ug/kg	2500	950	50	09/30/08 13:33	10/13/08 20:14	11097-69-1	
PCB-1260 (Aroclor 1260)	**<950**	ug/kg	2500	950	50	09/30/08 13:33	10/13/08 20:14	11096-82-5	
PCB, Total	**16300**	ug/kg	2500	950	50	09/30/08 13:33	10/13/08 20:14	1336-36-3	
Tetrachloro-m-xylene (S)	0	%	40-136		50	09/30/08 13:33	10/13/08 20:14	877-09-8	S4
Decachlorobiphenyl (S)	0	%	47-145		50	09/30/08 13:33	10/13/08 20:14	2051-24-3	S4
Lipid	Analytical Method: Pace Lipid								
Lipid	**2.1**	%		0.10	1		10/06/08 08:06		

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ANALYTICAL RESULTS

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 409244

Sample: BL-MR1-W3-G, 9/16/08 **Lab ID: 409244008** Collected: 09/16/08 00:00 Received: 09/19/08 13:40 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCBs, Tissue	Analytical Method: EPA 8082 Preparation Method: EPA 3540								
PCB-1016 (Aroclor 1016)	**<380**	ug/kg	1000	380	20	09/30/08 13:33	10/13/08 20:42	12674-11-2	
PCB-1221 (Aroclor 1221)	**<380**	ug/kg	1000	380	20	09/30/08 13:33	10/13/08 20:42	11104-28-2	
PCB-1232 (Aroclor 1232)	**<380**	ug/kg	1000	380	20	09/30/08 13:33	10/13/08 20:42	11141-16-5	
PCB-1242 (Aroclor 1242)	**<380**	ug/kg	1000	380	20	09/30/08 13:33	10/13/08 20:42	53469-21-9	
PCB-1248 (Aroclor 1248)	**2980**	ug/kg	1000	380	20	09/30/08 13:33	10/13/08 20:42	12672-29-6	
PCB-1254 (Aroclor 1254)	**2600**	ug/kg	1000	380	20	09/30/08 13:33	10/13/08 20:42	11097-69-1	
PCB-1260 (Aroclor 1260)	**<380**	ug/kg	1000	380	20	09/30/08 13:33	10/13/08 20:42	11096-82-5	
PCB, Total	**5580**	ug/kg	1000	380	20	09/30/08 13:33	10/13/08 20:42	1336-36-3	
Tetrachloro-m-xylene (S)	0	%	40-136		20	09/30/08 13:33	10/13/08 20:42	877-09-8	S4
Decachlorobiphenyl (S)	0	%	47-145		20	09/30/08 13:33	10/13/08 20:42	2051-24-3	S4
Lipid	Analytical Method: Pace Lipid								
Lipid	**0.60**	%		0.10	1		10/06/08 08:07		

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ANALYTICAL RESULTS

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 409244

Sample: BL-MR1-W4-G, 9/16/08 **Lab ID: 409244009** Collected: 09/16/08 00:00 Received: 09/19/08 13:40 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCBs, Tissue	Analytical Method: EPA 8082 Preparation Method: EPA 3540								
PCB-1016 (Aroclor 1016)	**<950**	ug/kg	2500	950	50	09/30/08 13:33	10/13/08 22:06	12674-11-2	
PCB-1221 (Aroclor 1221)	**<950**	ug/kg	2500	950	50	09/30/08 13:33	10/13/08 22:06	11104-28-2	
PCB-1232 (Aroclor 1232)	**<950**	ug/kg	2500	950	50	09/30/08 13:33	10/13/08 22:06	11141-16-5	
PCB-1242 (Aroclor 1242)	**<950**	ug/kg	2500	950	50	09/30/08 13:33	10/13/08 22:06	53469-21-9	
PCB-1248 (Aroclor 1248)	**8300**	ug/kg	2500	950	50	09/30/08 13:33	10/13/08 22:06	12672-29-6	
PCB-1254 (Aroclor 1254)	**5430**	ug/kg	2500	950	50	09/30/08 13:33	10/13/08 22:06	11097-69-1	
PCB-1260 (Aroclor 1260)	**<950**	ug/kg	2500	950	50	09/30/08 13:33	10/13/08 22:06	11096-82-5	
PCB, Total	**13700**	ug/kg	2500	950	50	09/30/08 13:33	10/13/08 22:06	1336-36-3	
Tetrachloro-m-xylene (S)	0	%	40-136		50	09/30/08 13:33	10/13/08 22:06	877-09-8	S4
Decachlorobiphenyl (S)	0	%	47-145		50	09/30/08 13:33	10/13/08 22:06	2051-24-3	S4
Lipid	Analytical Method: Pace Lipid								
Lipid	**1.5**	%		0.10	1		10/06/08 08:07		

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ANALYTICAL RESULTS

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 409244

Sample: BL-MR1-W5-G, 9/16/08 **Lab ID: 409244010** Collected: 09/16/08 00:00 Received: 09/19/08 13:40 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCBs, Tissue	Analytical Method: EPA 8082 Preparation Method: EPA 3540								
PCB-1016 (Aroclor 1016)	**<570**	ug/kg	1500	570	30	09/30/08 13:33	10/13/08 22:35	12674-11-2	
PCB-1221 (Aroclor 1221)	**<570**	ug/kg	1500	570	30	09/30/08 13:33	10/13/08 22:35	11104-28-2	
PCB-1232 (Aroclor 1232)	**<570**	ug/kg	1500	570	30	09/30/08 13:33	10/13/08 22:35	11141-16-5	
PCB-1242 (Aroclor 1242)	**<570**	ug/kg	1500	570	30	09/30/08 13:33	10/13/08 22:35	53469-21-9	
PCB-1248 (Aroclor 1248)	**4630**	ug/kg	1500	570	30	09/30/08 13:33	10/13/08 22:35	12672-29-6	
PCB-1254 (Aroclor 1254)	**3300**	ug/kg	1500	570	30	09/30/08 13:33	10/13/08 22:35	11097-69-1	
PCB-1260 (Aroclor 1260)	**<570**	ug/kg	1500	570	30	09/30/08 13:33	10/13/08 22:35	11096-82-5	
PCB, Total	**7930**	ug/kg	1500	570	30	09/30/08 13:33	10/13/08 22:35	1336-36-3	
Tetrachloro-m-xylene (S)	0	%	40-136		30	09/30/08 13:33	10/13/08 22:35	877-09-8	S4
Decachlorobiphenyl (S)	0	%	47-145		30	09/30/08 13:33	10/13/08 22:35	2051-24-3	S4
Lipid	Analytical Method: Pace Lipid								
Lipid	**0.70**	%		0.10	1		10/06/08 08:07		

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ANALYTICAL RESULTS

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 409244

Sample: BL-MR1-W6-G, 9/16/08 **Lab ID: 409244011** Collected: 09/16/08 00:00 Received: 09/19/08 13:40 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCBs, Tissue	Analytical Method: EPA 8082 Preparation Method: EPA 3540								
PCB-1016 (Aroclor 1016)	**<950**	ug/kg	2500	950	50	09/30/08 13:33	10/13/08 23:03	12674-11-2	
PCB-1221 (Aroclor 1221)	**<950**	ug/kg	2500	950	50	09/30/08 13:33	10/13/08 23:03	11104-28-2	
PCB-1232 (Aroclor 1232)	**<950**	ug/kg	2500	950	50	09/30/08 13:33	10/13/08 23:03	11141-16-5	
PCB-1242 (Aroclor 1242)	**<950**	ug/kg	2500	950	50	09/30/08 13:33	10/13/08 23:03	53469-21-9	
PCB-1248 (Aroclor 1248)	**8620**	ug/kg	2500	950	50	09/30/08 13:33	10/13/08 23:03	12672-29-6	
PCB-1254 (Aroclor 1254)	**5630**	ug/kg	2500	950	50	09/30/08 13:33	10/13/08 23:03	11097-69-1	
PCB-1260 (Aroclor 1260)	**<950**	ug/kg	2500	950	50	09/30/08 13:33	10/13/08 23:03	11096-82-5	
PCB, Total	**14300**	ug/kg	2500	950	50	09/30/08 13:33	10/13/08 23:03	1336-36-3	
Tetrachloro-m-xylene (S)	0	%	40-136		50	09/30/08 13:33	10/13/08 23:03	877-09-8	S4
Decachlorobiphenyl (S)	0	%	47-145		50	09/30/08 13:33	10/13/08 23:03	2051-24-3	S4
Lipid	Analytical Method: Pace Lipid								
Lipid	**1.6**	%		0.10	1		10/06/08 08:07		

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ANALYTICAL RESULTS

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 409244

Sample: BL-MR1-W7-G, 9/16/08 **Lab ID: 409244012** Collected: 09/16/08 00:00 Received: 09/19/08 13:40 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCBs, Tissue	Analytical Method: EPA 8082 Preparation Method: EPA 3540								
PCB-1016 (Aroclor 1016)	**<380**	ug/kg	1000	380	20	09/30/08 13:33	10/13/08 23:31	12674-11-2	
PCB-1221 (Aroclor 1221)	**<380**	ug/kg	1000	380	20	09/30/08 13:33	10/13/08 23:31	11104-28-2	
PCB-1232 (Aroclor 1232)	**<380**	ug/kg	1000	380	20	09/30/08 13:33	10/13/08 23:31	11141-16-5	
PCB-1242 (Aroclor 1242)	**<380**	ug/kg	1000	380	20	09/30/08 13:33	10/13/08 23:31	53469-21-9	
PCB-1248 (Aroclor 1248)	**3130**	ug/kg	1000	380	20	09/30/08 13:33	10/13/08 23:31	12672-29-6	
PCB-1254 (Aroclor 1254)	**2900**	ug/kg	1000	380	20	09/30/08 13:33	10/13/08 23:31	11097-69-1	
PCB-1260 (Aroclor 1260)	**<380**	ug/kg	1000	380	20	09/30/08 13:33	10/13/08 23:31	11096-82-5	
PCB, Total	**6030**	ug/kg	1000	380	20	09/30/08 13:33	10/13/08 23:31	1336-36-3	
Tetrachloro-m-xylene (S)	0	%	40-136		20	09/30/08 13:33	10/13/08 23:31	877-09-8	S4
Decachlorobiphenyl (S)	0	%	47-145		20	09/30/08 13:33	10/13/08 23:31	2051-24-3	S4
Lipid	Analytical Method: Pace Lipid								
Lipid	**0.46**	%		0.10	1		10/06/08 08:08		

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ANALYTICAL RESULTS

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 409244

Sample: BL-MR1-W8-G, 9/16/08 **Lab ID: 409244013** Collected: 09/16/08 00:00 Received: 09/19/08 13:40 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCBs, Tissue	Analytical Method: EPA 8082 Preparation Method: EPA 3540								
PCB-1016 (Aroclor 1016)	**<570**	ug/kg	1500	570	30	09/30/08 13:33	10/13/08 23:59	12674-11-2	
PCB-1221 (Aroclor 1221)	**<570**	ug/kg	1500	570	30	09/30/08 13:33	10/13/08 23:59	11104-28-2	
PCB-1232 (Aroclor 1232)	**<570**	ug/kg	1500	570	30	09/30/08 13:33	10/13/08 23:59	11141-16-5	
PCB-1242 (Aroclor 1242)	**<570**	ug/kg	1500	570	30	09/30/08 13:33	10/13/08 23:59	53469-21-9	
PCB-1248 (Aroclor 1248)	**4980**	ug/kg	1500	570	30	09/30/08 13:33	10/13/08 23:59	12672-29-6	
PCB-1254 (Aroclor 1254)	**3440**	ug/kg	1500	570	30	09/30/08 13:33	10/13/08 23:59	11097-69-1	
PCB-1260 (Aroclor 1260)	**<570**	ug/kg	1500	570	30	09/30/08 13:33	10/13/08 23:59	11096-82-5	
PCB, Total	**8410**	ug/kg	1500	570	30	09/30/08 13:33	10/13/08 23:59	1336-36-3	
Tetrachloro-m-xylene (S)	0	%	40-136		30	09/30/08 13:33	10/13/08 23:59	877-09-8	S4
Decachlorobiphenyl (S)	0	%	47-145		30	09/30/08 13:33	10/13/08 23:59	2051-24-3	S4
Lipid	Analytical Method: Pace Lipid								
Lipid	**1.0**	%		0.10	1		10/06/08 08:08		

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ANALYTICAL RESULTS

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 409244

Sample: BL-MR1-AWS1-G, 9/16/08 **Lab ID: 409244014** Collected: 09/16/08 00:00 Received: 09/19/08 13:40 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCBs, Tissue	Analytical Method: EPA 8082 Preparation Method: EPA 3540								
PCB-1016 (Aroclor 1016)	**<190**	ug/kg	500	190	10	09/30/08 13:33	10/14/08 00:27	12674-11-2	
PCB-1221 (Aroclor 1221)	**<190**	ug/kg	500	190	10	09/30/08 13:33	10/14/08 00:27	11104-28-2	
PCB-1232 (Aroclor 1232)	**<190**	ug/kg	500	190	10	09/30/08 13:33	10/14/08 00:27	11141-16-5	
PCB-1242 (Aroclor 1242)	**<190**	ug/kg	500	190	10	09/30/08 13:33	10/14/08 00:27	53469-21-9	
PCB-1248 (Aroclor 1248)	**2380**	ug/kg	500	190	10	09/30/08 13:33	10/14/08 00:27	12672-29-6	
PCB-1254 (Aroclor 1254)	**1350**	ug/kg	500	190	10	09/30/08 13:33	10/14/08 00:27	11097-69-1	
PCB-1260 (Aroclor 1260)	**<190**	ug/kg	500	190	10	09/30/08 13:33	10/14/08 00:27	11096-82-5	
PCB, Total	**3720**	ug/kg	500	190	10	09/30/08 13:33	10/14/08 00:27	1336-36-3	
Tetrachloro-m-xylene (S)	81	%	40-136		10	09/30/08 13:33	10/14/08 00:27	877-09-8	
Decachlorobiphenyl (S)	90	%	47-145		10	09/30/08 13:33	10/14/08 00:27	2051-24-3	
Lipid	Analytical Method: Pace Lipid								
Lipid	**0.87**	%		0.10	1		10/06/08 08:08		

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ANALYTICAL RESULTS

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 409244

Sample: BL-MR1-AWS2-G, 9/16/08 **Lab ID: 409244015** Collected: 09/16/08 00:00 Received: 09/19/08 13:40 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCBs, Tissue	Analytical Method: EPA 8082 Preparation Method: EPA 3540								
PCB-1016 (Aroclor 1016)	**<570**	ug/kg	1500	570	30	09/30/08 13:33	10/14/08 00:55	12674-11-2	
PCB-1221 (Aroclor 1221)	**<570**	ug/kg	1500	570	30	09/30/08 13:33	10/14/08 00:55	11104-28-2	
PCB-1232 (Aroclor 1232)	**<570**	ug/kg	1500	570	30	09/30/08 13:33	10/14/08 00:55	11141-16-5	
PCB-1242 (Aroclor 1242)	**<570**	ug/kg	1500	570	30	09/30/08 13:33	10/14/08 00:55	53469-21-9	
PCB-1248 (Aroclor 1248)	**7080**	ug/kg	1500	570	30	09/30/08 13:33	10/14/08 00:55	12672-29-6	
PCB-1254 (Aroclor 1254)	**4750**	ug/kg	1500	570	30	09/30/08 13:33	10/14/08 00:55	11097-69-1	
PCB-1260 (Aroclor 1260)	**<570**	ug/kg	1500	570	30	09/30/08 13:33	10/14/08 00:55	11096-82-5	
PCB, Total	**11800**	ug/kg	1500	570	30	09/30/08 13:33	10/14/08 00:55	1336-36-3	
Tetrachloro-m-xylene (S)	0	%	40-136		30	09/30/08 13:33	10/14/08 00:55	877-09-8	S4
Decachlorobiphenyl (S)	0	%	47-145		30	09/30/08 13:33	10/14/08 00:55	2051-24-3	S4
Lipid	Analytical Method: Pace Lipid								
Lipid	**1.3**	%		0.10	1		10/06/08 08:08		

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ANALYTICAL RESULTS

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 409244

Sample: BL-MR1-AWS3-G, 9/16/08 **Lab ID: 409244016** Collected: 09/16/08 00:00 Received: 09/19/08 13:40 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCBs, Tissue	Analytical Method: EPA 8082 Preparation Method: EPA 3540								
PCB-1016 (Aroclor 1016)	**<190**	ug/kg	500	190	10	09/30/08 13:33	10/14/08 01:23	12674-11-2	
PCB-1221 (Aroclor 1221)	**<190**	ug/kg	500	190	10	09/30/08 13:33	10/14/08 01:23	11104-28-2	
PCB-1232 (Aroclor 1232)	**<190**	ug/kg	500	190	10	09/30/08 13:33	10/14/08 01:23	11141-16-5	
PCB-1242 (Aroclor 1242)	**<190**	ug/kg	500	190	10	09/30/08 13:33	10/14/08 01:23	53469-21-9	
PCB-1248 (Aroclor 1248)	**2090**	ug/kg	500	190	10	09/30/08 13:33	10/14/08 01:23	12672-29-6	
PCB-1254 (Aroclor 1254)	**1150**	ug/kg	500	190	10	09/30/08 13:33	10/14/08 01:23	11097-69-1	
PCB-1260 (Aroclor 1260)	**<190**	ug/kg	500	190	10	09/30/08 13:33	10/14/08 01:23	11096-82-5	
PCB, Total	**3240**	ug/kg	500	190	10	09/30/08 13:33	10/14/08 01:23	1336-36-3	
Tetrachloro-m-xylene (S)	88	%	40-136		10	09/30/08 13:33	10/14/08 01:23	877-09-8	
Decachlorobiphenyl (S)	96	%	47-145		10	09/30/08 13:33	10/14/08 01:23	2051-24-3	
Lipid	Analytical Method: Pace Lipid								
Lipid	**0.74**	%		0.10	1		10/06/08 08:08		

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ANALYTICAL RESULTS

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 409244

Sample: BL-MR1-AWS4-G, 9/17/08 **Lab ID: 409244017** Collected: 09/17/08 00:00 Received: 09/19/08 13:40 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCBs, Tissue	Analytical Method: EPA 8082 Preparation Method: EPA 3540								
PCB-1016 (Aroclor 1016)	**<1900**	ug/kg	5000	1900	100	09/30/08 13:33	10/14/08 01:51	12674-11-2	
PCB-1221 (Aroclor 1221)	**<1900**	ug/kg	5000	1900	100	09/30/08 13:33	10/14/08 01:51	11104-28-2	
PCB-1232 (Aroclor 1232)	**<1900**	ug/kg	5000	1900	100	09/30/08 13:33	10/14/08 01:51	11141-16-5	
PCB-1242 (Aroclor 1242)	**<1900**	ug/kg	5000	1900	100	09/30/08 13:33	10/14/08 01:51	53469-21-9	
PCB-1248 (Aroclor 1248)	**11000**	ug/kg	5000	1900	100	09/30/08 13:33	10/14/08 01:51	12672-29-6	
PCB-1254 (Aroclor 1254)	**8830**	ug/kg	5000	1900	100	09/30/08 13:33	10/14/08 01:51	11097-69-1	
PCB-1260 (Aroclor 1260)	**<1900**	ug/kg	5000	1900	100	09/30/08 13:33	10/14/08 01:51	11096-82-5	
PCB, Total	**19900**	ug/kg	5000	1900	100	09/30/08 13:33	10/14/08 01:51	1336-36-3	
Tetrachloro-m-xylene (S)	0	%	40-136		100	09/30/08 13:33	10/14/08 01:51	877-09-8	S4
Decachlorobiphenyl (S)	0	%	47-145		100	09/30/08 13:33	10/14/08 01:51	2051-24-3	S4
Lipid	Analytical Method: Pace Lipid								
Lipid	**0.80**	%		0.10	1		10/06/08 08:09		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 409244

Sample: BL-MR1-AWS5-G, 9/17/08 **Lab ID: 409244018** Collected: 09/17/08 00:00 Received: 09/19/08 13:40 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCBs, Tissue	Analytical Method: EPA 8082 Preparation Method: EPA 3540								
PCB-1016 (Aroclor 1016)	**<570**	ug/kg	1500	570	30	09/30/08 13:33	10/14/08 02:20	12674-11-2	
PCB-1221 (Aroclor 1221)	**<570**	ug/kg	1500	570	30	09/30/08 13:33	10/14/08 02:20	11104-28-2	
PCB-1232 (Aroclor 1232)	**<570**	ug/kg	1500	570	30	09/30/08 13:33	10/14/08 02:20	11141-16-5	
PCB-1242 (Aroclor 1242)	**<570**	ug/kg	1500	570	30	09/30/08 13:33	10/14/08 02:20	53469-21-9	
PCB-1248 (Aroclor 1248)	**5700**	ug/kg	1500	570	30	09/30/08 13:33	10/14/08 02:20	12672-29-6	
PCB-1254 (Aroclor 1254)	**3090**	ug/kg	1500	570	30	09/30/08 13:33	10/14/08 02:20	11097-69-1	
PCB-1260 (Aroclor 1260)	**<570**	ug/kg	1500	570	30	09/30/08 13:33	10/14/08 02:20	11096-82-5	
PCB, Total	**8790**	ug/kg	1500	570	30	09/30/08 13:33	10/14/08 02:20	1336-36-3	
Tetrachloro-m-xylene (S)	0	%	40-136		30	09/30/08 13:33	10/14/08 02:20	877-09-8	S4
Decachlorobiphenyl (S)	0	%	47-145		30	09/30/08 13:33	10/14/08 02:20	2051-24-3	S4
Lipid	Analytical Method: Pace Lipid								
Lipid	**1.5**	%		0.10	1		10/06/08 08:09		

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ANALYTICAL RESULTS

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 409244

Sample: BL-MR1-AWS6-G, 9/17/08 **Lab ID: 409244019** Collected: 09/17/08 00:00 Received: 09/19/08 13:40 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCBs, Tissue	Analytical Method: EPA 8082 Preparation Method: EPA 3540								
PCB-1016 (Aroclor 1016)	**<380**	ug/kg	1000	380	20	09/30/08 13:33	10/14/08 02:48	12674-11-2	
PCB-1221 (Aroclor 1221)	**<380**	ug/kg	1000	380	20	09/30/08 13:33	10/14/08 02:48	11104-28-2	
PCB-1232 (Aroclor 1232)	**<380**	ug/kg	1000	380	20	09/30/08 13:33	10/14/08 02:48	11141-16-5	
PCB-1242 (Aroclor 1242)	**<380**	ug/kg	1000	380	20	09/30/08 13:33	10/14/08 02:48	53469-21-9	
PCB-1248 (Aroclor 1248)	**2690**	ug/kg	1000	380	20	09/30/08 13:33	10/14/08 02:48	12672-29-6	
PCB-1254 (Aroclor 1254)	**2000**	ug/kg	1000	380	20	09/30/08 13:33	10/14/08 02:48	11097-69-1	
PCB-1260 (Aroclor 1260)	**<380**	ug/kg	1000	380	20	09/30/08 13:33	10/14/08 02:48	11096-82-5	
PCB, Total	**4680**	ug/kg	1000	380	20	09/30/08 13:33	10/14/08 02:48	1336-36-3	
Tetrachloro-m-xylene (S)	0	%	40-136		20	09/30/08 13:33	10/14/08 02:48	877-09-8	S4
Decachlorobiphenyl (S)	0	%	47-145		20	09/30/08 13:33	10/14/08 02:48	2051-24-3	S4
Lipid	Analytical Method: Pace Lipid								
Lipid	**0.70**	%		0.10	1		10/06/08 08:09		

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(920)469-2436

ANALYTICAL RESULTS

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 409244

Sample: BL-MR1-AWS7-G, 9/17/08 **Lab ID: 409244020** Collected: 09/17/08 00:00 Received: 09/19/08 13:40 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCBs, Tissue	Analytical Method: EPA 8082 Preparation Method: EPA 3540								
PCB-1016 (Aroclor 1016)	**<570**	ug/kg	1500	570	30	09/30/08 13:33	10/14/08 03:16	12674-11-2	
PCB-1221 (Aroclor 1221)	**<570**	ug/kg	1500	570	30	09/30/08 13:33	10/14/08 03:16	11104-28-2	
PCB-1232 (Aroclor 1232)	**<570**	ug/kg	1500	570	30	09/30/08 13:33	10/14/08 03:16	11141-16-5	
PCB-1242 (Aroclor 1242)	**<570**	ug/kg	1500	570	30	09/30/08 13:33	10/14/08 03:16	53469-21-9	
PCB-1248 (Aroclor 1248)	**5600**	ug/kg	1500	570	30	09/30/08 13:33	10/14/08 03:16	12672-29-6	
PCB-1254 (Aroclor 1254)	**3630**	ug/kg	1500	570	30	09/30/08 13:33	10/14/08 03:16	11097-69-1	
PCB-1260 (Aroclor 1260)	**<570**	ug/kg	1500	570	30	09/30/08 13:33	10/14/08 03:16	11096-82-5	
PCB, Total	**9230**	ug/kg	1500	570	30	09/30/08 13:33	10/14/08 03:16	1336-36-3	
Tetrachloro-m-xylene (S)	0	%	40-136		30	09/30/08 13:33	10/14/08 03:16	877-09-8	S4
Decachlorobiphenyl (S)	0	%	47-145		30	09/30/08 13:33	10/14/08 03:16	2051-24-3	S4
Lipid	Analytical Method: Pace Lipid								
Lipid	**1.0**	%		0.10	1		10/06/08 08:09		

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QUALITY CONTROL DATA

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 409244

QC Batch: OEXT/2811 Analysis Method: EPA 8082
QC Batch Method: EPA 3540 Analysis Description: 8082 GCS Tissue Pesticides
Associated Lab Samples: 409244001, 409244002, 409244003, 409244004, 409244005, 409244006, 409244007, 409244008, 409244009, 409244010, 409244011, 409244012, 409244013, 409244014, 409244015, 409244016, 409244017, 409244018, 409244019, 409244020

METHOD BLANK: 82620 Matrix: Tissue
Associated Lab Samples: 409244001, 409244002, 409244003, 409244004, 409244005, 409244006, 409244007, 409244008, 409244009, 409244010, 409244011, 409244012, 409244013, 409244014, 409244015, 409244016, 409244017, 409244018, 409244019, 409244020

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg	<19.0	50.0	10/13/08 15:32	
PCB-1221 (Aroclor 1221)	ug/kg	<19.0	50.0	10/13/08 15:32	
PCB-1232 (Aroclor 1232)	ug/kg	<19.0	50.0	10/13/08 15:32	
PCB-1242 (Aroclor 1242)	ug/kg	<19.0	50.0	10/13/08 15:32	
PCB-1248 (Aroclor 1248)	ug/kg	<19.0	50.0	10/13/08 15:32	
PCB-1254 (Aroclor 1254)	ug/kg	<19.0	50.0	10/13/08 15:32	
PCB-1260 (Aroclor 1260)	ug/kg	<19.0	50.0	10/13/08 15:32	
Decachlorobiphenyl (S)	%	93	47-145	10/13/08 15:32	
Tetrachloro-m-xylene (S)	%	93	40-136	10/13/08 15:32	

LABORATORY CONTROL SAMPLE: 82621

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg		<19.0			
PCB-1221 (Aroclor 1221)	ug/kg		<19.0			
PCB-1232 (Aroclor 1232)	ug/kg		<19.0			
PCB-1242 (Aroclor 1242)	ug/kg	250	253	101	40-128	
PCB-1248 (Aroclor 1248)	ug/kg		<19.0			
PCB-1254 (Aroclor 1254)	ug/kg		<19.0			
PCB-1260 (Aroclor 1260)	ug/kg		<19.0			
Decachlorobiphenyl (S)	%			90	47-145	
Tetrachloro-m-xylene (S)	%			94	40-136	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 82622 82623

Parameter	Units	409244001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
PCB-1016 (Aroclor 1016)	ug/kg	<380			<380	<380					56	
PCB-1221 (Aroclor 1221)	ug/kg	<380			<380	<380					56	
PCB-1232 (Aroclor 1232)	ug/kg	<380			<380	<380					56	
PCB-1242 (Aroclor 1242)	ug/kg	<380	1000	1000	<380	<380	0	0	43-130		56	M0
PCB-1248 (Aroclor 1248)	ug/kg	2460			3780	3700				2	56	
PCB-1254 (Aroclor 1254)	ug/kg	1750			2030	2000				1	56	
PCB-1260 (Aroclor 1260)	ug/kg	<380			<380	<380					56	
Decachlorobiphenyl (S)	%						0	0	47-145			S4
Tetrachloro-m-xylene (S)	%						0	0	40-136			S4

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QUALITY CONTROL DATA

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 409244

QC Batch: OEXT/2847 Analysis Method: Pace Lipid
QC Batch Method: Pace Lipid Analysis Description: LIPID
Associated Lab Samples: 409244001, 409244002, 409244003, 409244004, 409244005, 409244006, 409244007, 409244008, 409244009, 409244010, 409244011, 409244012, 409244013, 409244014, 409244015, 409244016, 409244017, 409244018, 409244019, 409244020

METHOD BLANK: 84394 Matrix: Tissue
Associated Lab Samples: 409244001, 409244002, 409244003, 409244004, 409244005, 409244006, 409244007, 409244008, 409244009, 409244010, 409244011, 409244012, 409244013, 409244014, 409244015, 409244016, 409244017, 409244018, 409244019, 409244020

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lipid	%	<0.10		10/06/08 08:01	

SAMPLE DUPLICATE: 84395

Parameter	Units	409244001 Result	Dup Result	RPD	Max RPD	Qualifiers
Lipid	%	0.82	0.91	11	20	

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QUALIFIERS

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 409244

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

Pace Analytical is NELAP accredited. Contact your Pace PM for the current list of accredited analytes.

ANALYTE QUALIFIERS

M0	Matrix spike recovery was outside laboratory control limits.
S4	Surrogate recovery not evaluated against control limits due to sample dilution.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 409244

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
409244001	**BL-MR1-SB4-G, 9/16/08**	EPA 3540	OEXT/2811	EPA 8082	GCSV/1970
409244002	**BL-MR1-SB5-G, 9/16/08**	EPA 3540	OEXT/2811	EPA 8082	GCSV/1970
409244003	**BL-MR1-SB6-G, 9/16/08**	EPA 3540	OEXT/2811	EPA 8082	GCSV/1970
409244004	**BL-MR1-SB7-G, 9/16/08**	EPA 3540	OEXT/2811	EPA 8082	GCSV/1970
409244005	**BL-MR1-SB8-G, 9/16/08**	EPA 3540	OEXT/2811	EPA 8082	GCSV/1970
409244006	**BL-MR1-W1-G, 9/16/08**	EPA 3540	OEXT/2811	EPA 8082	GCSV/1970
409244007	**BL-MR1-W2-G, 9/16/08**	EPA 3540	OEXT/2811	EPA 8082	GCSV/1970
409244008	**BL-MR1-W3-G, 9/16/08**	EPA 3540	OEXT/2811	EPA 8082	GCSV/1970
409244009	**BL-MR1-W4-G, 9/16/08**	EPA 3540	OEXT/2811	EPA 8082	GCSV/1970
409244010	**BL-MR1-W5-G, 9/16/08**	EPA 3540	OEXT/2811	EPA 8082	GCSV/1970
409244011	**BL-MR1-W6-G, 9/16/08**	EPA 3540	OEXT/2811	EPA 8082	GCSV/1970
409244012	**BL-MR1-W7-G, 9/16/08**	EPA 3540	OEXT/2811	EPA 8082	GCSV/1970
409244013	**BL-MR1-W8-G, 9/16/08**	EPA 3540	OEXT/2811	EPA 8082	GCSV/1970
409244014	**BL-MR1-AWS1-G, 9/16/08**	EPA 3540	OEXT/2811	EPA 8082	GCSV/1970
409244015	**BL-MR1-AWS2-G, 9/16/08**	EPA 3540	OEXT/2811	EPA 8082	GCSV/1970
409244016	**BL-MR1-AWS3-G, 9/16/08**	EPA 3540	OEXT/2811	EPA 8082	GCSV/1970
409244017	**BL-MR1-AWS4-G, 9/17/08**	EPA 3540	OEXT/2811	EPA 8082	GCSV/1970
409244018	**BL-MR1-AWS5-G, 9/17/08**	EPA 3540	OEXT/2811	EPA 8082	GCSV/1970
409244019	**BL-MR1-AWS6-G, 9/17/08**	EPA 3540	OEXT/2811	EPA 8082	GCSV/1970
409244020	**BL-MR1-AWS7-G, 9/17/08**	EPA 3540	OEXT/2811	EPA 8082	GCSV/1970
409244001	**BL-MR1-SB4-G, 9/16/08**	Pace Lipid	OEXT/2847		
409244002	**BL-MR1-SB5-G, 9/16/08**	Pace Lipid	OEXT/2847		
409244003	**BL-MR1-SB6-G, 9/16/08**	Pace Lipid	OEXT/2847		
409244004	**BL-MR1-SB7-G, 9/16/08**	Pace Lipid	OEXT/2847		
409244005	**BL-MR1-SB8-G, 9/16/08**	Pace Lipid	OEXT/2847		
409244006	**BL-MR1-W1-G, 9/16/08**	Pace Lipid	OEXT/2847		
409244007	**BL-MR1-W2-G, 9/16/08**	Pace Lipid	OEXT/2847		
409244008	**BL-MR1-W3-G, 9/16/08**	Pace Lipid	OEXT/2847		
409244009	**BL-MR1-W4-G, 9/16/08**	Pace Lipid	OEXT/2847		
409244010	**BL-MR1-W5-G, 9/16/08**	Pace Lipid	OEXT/2847		
409244011	**BL-MR1-W6-G, 9/16/08**	Pace Lipid	OEXT/2847		
409244012	**BL-MR1-W7-G, 9/16/08**	Pace Lipid	OEXT/2847		
409244013	**BL-MR1-W8-G, 9/16/08**	Pace Lipid	OEXT/2847		
409244014	**BL-MR1-AWS1-G, 9/16/08**	Pace Lipid	OEXT/2847		
409244015	**BL-MR1-AWS2-G, 9/16/08**	Pace Lipid	OEXT/2847		
409244016	**BL-MR1-AWS3-G, 9/16/08**	Pace Lipid	OEXT/2847		
409244017	**BL-MR1-AWS4-G, 9/17/08**	Pace Lipid	OEXT/2847		
409244018	**BL-MR1-AWS5-G, 9/17/08**	Pace Lipid	OEXT/2847		
409244019	**BL-MR1-AWS6-G, 9/17/08**	Pace Lipid	OEXT/2847		
409244020	**BL-MR1-AWS7-G, 9/17/08**	Pace Lipid	OEXT/2847		

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October 17, 2008

BRANDY PROFFITT
POLLUTION RISK SERVICES
7870 EAST KEMPER ROAD
SUITE 240
Cincinnati, OH 45249

RE: Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 409155

Dear BRANDY PROFFITT:
Enclosed are the analytical results for sample(s) received by the laboratory on September 18, 2008. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Tod Noltemeyer

Tod Noltemeyer

tod.noltemeyer@pacelabs.com
Project Manager

Enclosures

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CERTIFICATIONS

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 409155

Green Bay Certification IDs

Louisiana Certification #: 04169
Louisiana Certification #: 04168
Kentucky Certification #: 83
Kentucky Certification #: 82
Wisconsin DATCP Certification #: 105-444
Wisconsin DATCP Certification #: 105-444
Wisconsin Certification #: 405132750
Wisconsin Certification #: 405132750
South Carolina Certification #: 83006001
South Carolina Certification #: 83006001
Minnesota Certification #: 055-999-334
Minnesota Certification #: 055-999-334
North Carolina Certification #: 503
North Carolina Certification #: 503
North Dakota Certification #: R-200
North Dakota Certification #: R-150
New York Certification #: 11888
New York Certification #: 11887
Illinois Certification #: 200051
Illinois Certification #: 200050
Florida (NELAP) Certification #: E87951
Florida (NELAP) Certification #: E87948

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SAMPLE SUMMARY

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 409155

Lab ID	Sample ID	Matrix	Date Collected	Date Received
409155001	BL-MR2-RB6-G, 9/15/08	Tissue	09/15/08 00:00	09/18/08 13:05
409155002	BL-MR2-RB7-G, 9/15/08	Tissue	09/15/08 00:00	09/18/08 13:05
409155003	BL-MR2-RB8-G, 9/15/08	Tissue	09/15/08 00:00	09/18/08 13:05
409155004	BL-MR2-AC1-G, 9/15/08	Tissue	09/15/08 00:00	09/18/08 13:05
409155005	BL-MR2-JWS3-G, 9/15/08	Tissue	09/15/08 00:00	09/18/08 13:05
409155006	BL-MR2-JWS4-G, 9/15/08	Tissue	09/15/08 00:00	09/18/08 13:05
409155007	BL-MR2-JWS5-G, 9/15/08	Tissue	09/15/08 00:00	09/18/08 13:05
409155008	BL-MR2-JWS6-G, 9/15/08	Tissue	09/15/08 00:00	09/18/08 13:05
409155009	BL-MR2-JWS7-G, 9/15/08	Tissue	09/15/08 00:00	09/18/08 13:05
409155010	BL-MR1-AC1-G, 9/16/08	Tissue	09/16/08 00:00	09/18/08 13:05
409155011	BL-MR1-AC2-G, 9/16/08	Tissue	09/16/08 00:00	09/18/08 13:05
409155012	BL-MR1-AC3-G, 9/16/08	Tissue	09/16/08 00:00	09/18/08 13:05
409155013	BL-MR1-AC4-G, 9/16/08	Tissue	09/16/08 00:00	09/18/08 13:05
409155014	BL-MR1-AC5-G, 9/16/08	Tissue	09/16/08 00:00	09/18/08 13:05
409155015	BL-MR1-AC6-G, 9/16/08	Tissue	09/16/08 00:00	09/18/08 13:05
409155016	BL-MR1-AC7-G, 9/16/08	Tissue	09/16/08 00:00	09/18/08 13:05
409155017	BL-MR1-AC8-G, 9/16/08	Tissue	09/16/08 00:00	09/18/08 13:05
409155018	BL-MR1-SB1-G, 9/16/08	Tissue	09/16/08 00:00	09/18/08 13:05
409155019	BL-MR1-SB2-G, 9/16/08	Tissue	09/16/08 00:00	09/18/08 13:05
409155020	BL-MR1-SB3-G, 9/16/08	Tissue	09/16/08 00:00	09/18/08 13:05

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SAMPLE ANALYTE COUNT

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 409155

Lab ID	Sample ID	Method	Analysts	Analytes Reported
409155001	BL-MR2-RB6-G, 9/15/08	EPA 8082	CAH	10
		Pace Lipid	DAL	1
409155002	BL-MR2-RB7-G, 9/15/08	EPA 8082	CAH	10
		Pace Lipid	DAL	1
409155003	BL-MR2-RB8-G, 9/15/08	EPA 8082	CAH	10
		Pace Lipid	DAL	1
409155004	BL-MR2-AC1-G, 9/15/08	EPA 8082	CAH	10
		Pace Lipid	DAL	1
409155005	BL-MR2-JWS3-G, 9/15/08	EPA 8082	CAH	10
		Pace Lipid	DAL	1
409155006	BL-MR2-JWS4-G, 9/15/08	EPA 8082	CAH	10
		Pace Lipid	DAL	1
409155007	BL-MR2-JWS5-G, 9/15/08	EPA 8082	CAH	10
		Pace Lipid	DAL	1
409155008	BL-MR2-JWS6-G, 9/15/08	EPA 8082	CAH	10
		Pace Lipid	DAL	1
409155009	BL-MR2-JWS7-G, 9/15/08	EPA 8082	CAH	10
		Pace Lipid	DAL	1
409155010	BL-MR1-AC1-G, 9/16/08	EPA 8082	CAH	10
		Pace Lipid	DAL	1
409155011	BL-MR1-AC2-G, 9/16/08	EPA 8082	CAH	10
		Pace Lipid	DAL	1
409155012	BL-MR1-AC3-G, 9/16/08	EPA 8082	CAH	10
		Pace Lipid	DAL	1
409155013	BL-MR1-AC4-G, 9/16/08	EPA 8082	CAH	10
		Pace Lipid	DAL	1
409155014	BL-MR1-AC5-G, 9/16/08	EPA 8082	CAH	10
		Pace Lipid	DAL	1
409155015	BL-MR1-AC6-G, 9/16/08	EPA 8082	CAH	10
		Pace Lipid	DAL	1
409155016	BL-MR1-AC7-G, 9/16/08	EPA 8082	CAH	10
		Pace Lipid	DAL	1
409155017	BL-MR1-AC8-G, 9/16/08	EPA 8082	CAH	10
		Pace Lipid	DAL	1
409155018	BL-MR1-SB1-G, 9/16/08	EPA 8082	CAH	10
		Pace Lipid	DAL	1
409155019	BL-MR1-SB2-G, 9/16/08	EPA 8082	CAH	10

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SAMPLE ANALYTE COUNT

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 409155

Lab ID	Sample ID	Method	Analysts	Analytes Reported
		Pace Lipid	DAL	1
409155020	**BL-MR1-SB3-G, 9/16/08**	EPA 8082	CAH	10
		Pace Lipid	DAL	1

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PROJECT NARRATIVE

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 409155

Method: **EPA 8082**
Description: 8082 GCS PCBs, Tissue
Client: POLLUTION RISK SERVICES
Date: October 17, 2008

General Information:
20 samples were analyzed for EPA 8082. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 3540 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

QC Batch: OEXT/2810

S4: Surrogate recovery not evaluated against control limits due to sample dilution.

- BL-MR1-AC8-G, 9/16/08 (Lab ID: 409155017)
  - Decachlorobiphenyl (S)
  - Tetrachloro-m-xylene (S)
- BL-MR1-SB1-G, 9/16/08 (Lab ID: 409155018)
  - Decachlorobiphenyl (S)
  - Tetrachloro-m-xylene (S)
- BL-MR1-SB2-G, 9/16/08 (Lab ID: 409155019)
  - Decachlorobiphenyl (S)
  - Tetrachloro-m-xylene (S)
- BL-MR1-SB3-G, 9/16/08 (Lab ID: 409155020)
  - Decachlorobiphenyl (S)
  - Tetrachloro-m-xylene (S)

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

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PROJECT NARRATIVE

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 409155

Method: **EPA 8082**
Description: 8082 GCS PCBs, Tissue
Client: POLLUTION RISK SERVICES
Date: October 17, 2008

QC Batch: OEXT/2810

A matrix spike and matrix spike duplicate (MS/MSD) were performed on the following sample(s): 409155004

M0: Matrix spike recovery was outside laboratory control limits.

- MS (Lab ID: 82618)
  - PCB-1242 (Aroclor 1242)
- MSD (Lab ID: 82619)
  - PCB-1242 (Aroclor 1242)

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 409155

Method: **Pace Lipid**
Description: Lipid
Client: POLLUTION RISK SERVICES
Date: October 17, 2008

General Information:
20 samples were analyzed for Pace Lipid. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

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ANALYTICAL RESULTS

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 409155

Sample: BL-MR2-RB6-G, 9/15/08 **Lab ID: 409155001** Collected: 09/15/08 00:00 Received: 09/18/08 13:05 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCBs, Tissue	Analytical Method: EPA 8082 Preparation Method: EPA 3540								
PCB-1016 (Aroclor 1016)	**<248**	ug/kg	654	248	10	09/30/08 13:30	10/10/08 00:26	12674-11-2	
PCB-1221 (Aroclor 1221)	**<248**	ug/kg	654	248	10	09/30/08 13:30	10/10/08 00:26	11104-28-2	
PCB-1232 (Aroclor 1232)	**<248**	ug/kg	654	248	10	09/30/08 13:30	10/10/08 00:26	11141-16-5	
PCB-1242 (Aroclor 1242)	**<248**	ug/kg	654	248	10	09/30/08 13:30	10/10/08 00:26	53469-21-9	
PCB-1248 (Aroclor 1248)	**1890**	ug/kg	654	248	10	09/30/08 13:30	10/10/08 00:26	12672-29-6	
PCB-1254 (Aroclor 1254)	**1820**	ug/kg	654	248	10	09/30/08 13:30	10/10/08 00:26	11097-69-1	
PCB-1260 (Aroclor 1260)	**<248**	ug/kg	654	248	10	09/30/08 13:30	10/10/08 00:26	11096-82-5	
PCB, Total	**3700**	ug/kg	654	248	10	09/30/08 13:30	10/10/08 00:26	1336-36-3	
Tetrachloro-m-xylene (S)	88	%	40-136		10	09/30/08 13:30	10/10/08 00:26	877-09-8	
Decachlorobiphenyl (S)	100	%	47-145		10	09/30/08 13:30	10/10/08 00:26	2051-24-3	
Lipid	Analytical Method: Pace Lipid								
Lipid	**1.3**	%		0.10	1		10/06/08 07:54		

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ANALYTICAL RESULTS

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 409155

Sample: BL-MR2-RB7-G, 9/15/08 **Lab ID: 409155002** Collected: 09/15/08 00:00 Received: 09/18/08 13:05 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCBs, Tissue	Analytical Method: EPA 8082 Preparation Method: EPA 3540								
PCB-1016 (Aroclor 1016)	**<122**	ug/kg	321	122	5	09/30/08 13:30	10/10/08 00:52	12674-11-2	
PCB-1221 (Aroclor 1221)	**<122**	ug/kg	321	122	5	09/30/08 13:30	10/10/08 00:52	11104-28-2	
PCB-1232 (Aroclor 1232)	**<122**	ug/kg	321	122	5	09/30/08 13:30	10/10/08 00:52	11141-16-5	
PCB-1242 (Aroclor 1242)	**<122**	ug/kg	321	122	5	09/30/08 13:30	10/10/08 00:52	53469-21-9	
PCB-1248 (Aroclor 1248)	**1150**	ug/kg	321	122	5	09/30/08 13:30	10/10/08 00:52	12672-29-6	
PCB-1254 (Aroclor 1254)	**1130**	ug/kg	321	122	5	09/30/08 13:30	10/10/08 00:52	11097-69-1	
PCB-1260 (Aroclor 1260)	**<122**	ug/kg	321	122	5	09/30/08 13:30	10/10/08 00:52	11096-82-5	
PCB, Total	**2270**	ug/kg	321	122	5	09/30/08 13:30	10/10/08 00:52	1336-36-3	
Tetrachloro-m-xylene (S)	76	%	40-136		5	09/30/08 13:30	10/10/08 00:52	877-09-8	
Decachlorobiphenyl (S)	85	%	47-145		5	09/30/08 13:30	10/10/08 00:52	2051-24-3	
Lipid	Analytical Method: Pace Lipid								
Lipid	**0.58**	%		0.10	1		10/06/08 07:54		

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ANALYTICAL RESULTS

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 409155

Sample: BL-MR2-RB8-G, 9/15/08 **Lab ID: 409155003** Collected: 09/15/08 00:00 Received: 09/18/08 13:05 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCBs, Tissue	Analytical Method: EPA 8082 Preparation Method: EPA 3540								
PCB-1016 (Aroclor 1016)	**<190**	ug/kg	500	190	10	09/30/08 13:30	10/10/08 01:18	12674-11-2	
PCB-1221 (Aroclor 1221)	**<190**	ug/kg	500	190	10	09/30/08 13:30	10/10/08 01:18	11104-28-2	
PCB-1232 (Aroclor 1232)	**<190**	ug/kg	500	190	10	09/30/08 13:30	10/10/08 01:18	11141-16-5	
PCB-1242 (Aroclor 1242)	**<190**	ug/kg	500	190	10	09/30/08 13:30	10/10/08 01:18	53469-21-9	
PCB-1248 (Aroclor 1248)	**1090**	ug/kg	500	190	10	09/30/08 13:30	10/10/08 01:18	12672-29-6	
PCB-1254 (Aroclor 1254)	**1110**	ug/kg	500	190	10	09/30/08 13:30	10/10/08 01:18	11097-69-1	
PCB-1260 (Aroclor 1260)	**<190**	ug/kg	500	190	10	09/30/08 13:30	10/10/08 01:18	11096-82-5	
PCB, Total	**2200**	ug/kg	500	190	10	09/30/08 13:30	10/10/08 01:18	1336-36-3	
Tetrachloro-m-xylene (S)	88	%	40-136		10	09/30/08 13:30	10/10/08 01:18	877-09-8	
Decachlorobiphenyl (S)	102	%	47-145		10	09/30/08 13:30	10/10/08 01:18	2051-24-3	
Lipid	Analytical Method: Pace Lipid								
Lipid	**0.50**	%		0.10	1		10/06/08 07:55		

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ANALYTICAL RESULTS

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 409155

Sample: BL-MR2-AC1-G, 9/15/08 **Lab ID: 409155004** Collected: 09/15/08 00:00 Received: 09/18/08 13:05 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCBs, Tissue	Analytical Method: EPA 8082 Preparation Method: EPA 3540								
PCB-1016 (Aroclor 1016)	**<76.0**	ug/kg	200	76.0	4	09/30/08 13:30	10/10/08 01:44	12674-11-2	
PCB-1221 (Aroclor 1221)	**<76.0**	ug/kg	200	76.0	4	09/30/08 13:30	10/10/08 01:44	11104-28-2	
PCB-1232 (Aroclor 1232)	**<76.0**	ug/kg	200	76.0	4	09/30/08 13:30	10/10/08 01:44	11141-16-5	
PCB-1242 (Aroclor 1242)	**<76.0**	ug/kg	200	76.0	4	09/30/08 13:30	10/10/08 01:44	53469-21-9	M0
PCB-1248 (Aroclor 1248)	**768**	ug/kg	200	76.0	4	09/30/08 13:30	10/10/08 01:44	12672-29-6	
PCB-1254 (Aroclor 1254)	**506**	ug/kg	200	76.0	4	09/30/08 13:30	10/10/08 01:44	11097-69-1	
PCB-1260 (Aroclor 1260)	**<76.0**	ug/kg	200	76.0	4	09/30/08 13:30	10/10/08 01:44	11096-82-5	
PCB, Total	**1270**	ug/kg	200	76.0	4	09/30/08 13:30	10/10/08 01:44	1336-36-3	
Tetrachloro-m-xylene (S)	80	%	40-136		4	09/30/08 13:30	10/10/08 01:44	877-09-8	
Decachlorobiphenyl (S)	90	%	47-145		4	09/30/08 13:30	10/10/08 01:44	2051-24-3	
Lipid	Analytical Method: Pace Lipid								
Lipid	**0.73**	%		0.10	1		10/06/08 15:41		

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ANALYTICAL RESULTS

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 409155

Sample: BL-MR2-JWS3-G, 9/15/08 **Lab ID: 409155005** Collected: 09/15/08 00:00 Received: 09/18/08 13:05 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCBs, Tissue	Analytical Method: EPA 8082 Preparation Method: EPA 3540								
PCB-1016 (Aroclor 1016)	**<76.0**	ug/kg	200	76.0	4	09/30/08 13:30	10/10/08 02:10	12674-11-2	
PCB-1221 (Aroclor 1221)	**<76.0**	ug/kg	200	76.0	4	09/30/08 13:30	10/10/08 02:10	11104-28-2	
PCB-1232 (Aroclor 1232)	**<76.0**	ug/kg	200	76.0	4	09/30/08 13:30	10/10/08 02:10	11141-16-5	
PCB-1242 (Aroclor 1242)	**<76.0**	ug/kg	200	76.0	4	09/30/08 13:30	10/10/08 02:10	53469-21-9	
PCB-1248 (Aroclor 1248)	**972**	ug/kg	200	76.0	4	09/30/08 13:30	10/10/08 02:10	12672-29-6	
PCB-1254 (Aroclor 1254)	**792**	ug/kg	200	76.0	4	09/30/08 13:30	10/10/08 02:10	11097-69-1	
PCB-1260 (Aroclor 1260)	**<76.0**	ug/kg	200	76.0	4	09/30/08 13:30	10/10/08 02:10	11096-82-5	
PCB, Total	**1760**	ug/kg	200	76.0	4	09/30/08 13:30	10/10/08 02:10	1336-36-3	
Tetrachloro-m-xylene (S)	87	%	40-136		4	09/30/08 13:30	10/10/08 02:10	877-09-8	
Decachlorobiphenyl (S)	94	%	47-145		4	09/30/08 13:30	10/10/08 02:10	2051-24-3	
Lipid	Analytical Method: Pace Lipid								
Lipid	**0.74**	%		0.10	1		10/06/08 07:56		

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ANALYTICAL RESULTS

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 409155

Sample: BL-MR2-JWS4-G, 9/15/08 **Lab ID: 409155006** Collected: 09/15/08 00:00 Received: 09/18/08 13:05 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCBs, Tissue	Analytical Method: EPA 8082 Preparation Method: EPA 3540								
PCB-1016 (Aroclor 1016)	**<57.0**	ug/kg	150	57.0	3	09/30/08 13:30	10/10/08 02:36	12674-11-2	
PCB-1221 (Aroclor 1221)	**<57.0**	ug/kg	150	57.0	3	09/30/08 13:30	10/10/08 02:36	11104-28-2	
PCB-1232 (Aroclor 1232)	**<57.0**	ug/kg	150	57.0	3	09/30/08 13:30	10/10/08 02:36	11141-16-5	
PCB-1242 (Aroclor 1242)	**<57.0**	ug/kg	150	57.0	3	09/30/08 13:30	10/10/08 02:36	53469-21-9	
PCB-1248 (Aroclor 1248)	**696**	ug/kg	150	57.0	3	09/30/08 13:30	10/10/08 02:36	12672-29-6	
PCB-1254 (Aroclor 1254)	**439**	ug/kg	150	57.0	3	09/30/08 13:30	10/10/08 02:36	11097-69-1	
PCB-1260 (Aroclor 1260)	**<57.0**	ug/kg	150	57.0	3	09/30/08 13:30	10/10/08 02:36	11096-82-5	
PCB, Total	**1130**	ug/kg	150	57.0	3	09/30/08 13:30	10/10/08 02:36	1336-36-3	
Tetrachloro-m-xylene (S)	87	%	40-136		3	09/30/08 13:30	10/10/08 02:36	877-09-8	
Decachlorobiphenyl (S)	95	%	47-145		3	09/30/08 13:30	10/10/08 02:36	2051-24-3	
Lipid	Analytical Method: Pace Lipid								
Lipid	**0.58**	%		0.10	1		10/06/08 07:56		

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ANALYTICAL RESULTS

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 409155

Sample: BL-MR2-JWS5-G, 9/15/08 **Lab ID: 409155007** Collected: 09/15/08 00:00 Received: 09/18/08 13:05 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCBs, Tissue	Analytical Method: EPA 8082 Preparation Method: EPA 3540								
PCB-1016 (Aroclor 1016)	**<38.0**	ug/kg	100	38.0	2	09/30/08 13:30	10/10/08 03:01	12674-11-2	
PCB-1221 (Aroclor 1221)	**<38.0**	ug/kg	100	38.0	2	09/30/08 13:30	10/10/08 03:01	11104-28-2	
PCB-1232 (Aroclor 1232)	**<38.0**	ug/kg	100	38.0	2	09/30/08 13:30	10/10/08 03:01	11141-16-5	
PCB-1242 (Aroclor 1242)	**<38.0**	ug/kg	100	38.0	2	09/30/08 13:30	10/10/08 03:01	53469-21-9	
PCB-1248 (Aroclor 1248)	**474**	ug/kg	100	38.0	2	09/30/08 13:30	10/10/08 03:01	12672-29-6	
PCB-1254 (Aroclor 1254)	**462**	ug/kg	100	38.0	2	09/30/08 13:30	10/10/08 03:01	11097-69-1	
PCB-1260 (Aroclor 1260)	**44.4J**	ug/kg	100	38.0	2	09/30/08 13:30	10/10/08 03:01	11096-82-5	
PCB, Total	**980**	ug/kg	100	38.0	2	09/30/08 13:30	10/10/08 03:01	1336-36-3	
Tetrachloro-m-xylene (S)	91	%	40-136		2	09/30/08 13:30	10/10/08 03:01	877-09-8	
Decachlorobiphenyl (S)	98	%	47-145		2	09/30/08 13:30	10/10/08 03:01	2051-24-3	
Lipid	Analytical Method: Pace Lipid								
Lipid	**0.27**	%		0.10	1		10/06/08 07:56		

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ANALYTICAL RESULTS

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 409155

Sample: BL-MR2-JWS6-G, 9/15/08 **Lab ID: 409155008** Collected: 09/15/08 00:00 Received: 09/18/08 13:05 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCBs, Tissue	Analytical Method: EPA 8082 Preparation Method: EPA 3540								
PCB-1016 (Aroclor 1016)	**<58.8**	ug/kg	155	58.8	3	09/30/08 13:30	10/10/08 03:27	12674-11-2	
PCB-1221 (Aroclor 1221)	**<58.8**	ug/kg	155	58.8	3	09/30/08 13:30	10/10/08 03:27	11104-28-2	
PCB-1232 (Aroclor 1232)	**<58.8**	ug/kg	155	58.8	3	09/30/08 13:30	10/10/08 03:27	11141-16-5	
PCB-1242 (Aroclor 1242)	**<58.8**	ug/kg	155	58.8	3	09/30/08 13:30	10/10/08 03:27	53469-21-9	
PCB-1248 (Aroclor 1248)	**665**	ug/kg	155	58.8	3	09/30/08 13:30	10/10/08 03:27	12672-29-6	
PCB-1254 (Aroclor 1254)	**415**	ug/kg	155	58.8	3	09/30/08 13:30	10/10/08 03:27	11097-69-1	
PCB-1260 (Aroclor 1260)	**<58.8**	ug/kg	155	58.8	3	09/30/08 13:30	10/10/08 03:27	11096-82-5	
PCB, Total	**1080**	ug/kg	155	58.8	3	09/30/08 13:30	10/10/08 03:27	1336-36-3	
Tetrachloro-m-xylene (S)	87	%	40-136		3	09/30/08 13:30	10/10/08 03:27	877-09-8	
Decachlorobiphenyl (S)	97	%	47-145		3	09/30/08 13:30	10/10/08 03:27	2051-24-3	
Lipid	Analytical Method: Pace Lipid								
Lipid	**0.56**	%		0.10	1		10/06/08 07:56		

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ANALYTICAL RESULTS

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 409155

Sample: BL-MR2-JWS7-G, 9/15/08 **Lab ID: 409155009** Collected: 09/15/08 00:00 Received: 09/18/08 13:05 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCBs, Tissue	Analytical Method: EPA 8082 Preparation Method: EPA 3540								
PCB-1016 (Aroclor 1016)	**<57.0**	ug/kg	150	57.0	3	09/30/08 13:30	10/10/08 04:44	12674-11-2	
PCB-1221 (Aroclor 1221)	**<57.0**	ug/kg	150	57.0	3	09/30/08 13:30	10/10/08 04:44	11104-28-2	
PCB-1232 (Aroclor 1232)	**<57.0**	ug/kg	150	57.0	3	09/30/08 13:30	10/10/08 04:44	11141-16-5	
PCB-1242 (Aroclor 1242)	**<57.0**	ug/kg	150	57.0	3	09/30/08 13:30	10/10/08 04:44	53469-21-9	
PCB-1248 (Aroclor 1248)	**751**	ug/kg	150	57.0	3	09/30/08 13:30	10/10/08 04:44	12672-29-6	
PCB-1254 (Aroclor 1254)	**586**	ug/kg	150	57.0	3	09/30/08 13:30	10/10/08 04:44	11097-69-1	
PCB-1260 (Aroclor 1260)	**59.4J**	ug/kg	150	57.0	3	09/30/08 13:30	10/10/08 04:44	11096-82-5	
PCB, Total	**1400**	ug/kg	150	57.0	3	09/30/08 13:30	10/10/08 04:44	1336-36-3	
Tetrachloro-m-xylene (S)	87	%	40-136		3	09/30/08 13:30	10/10/08 04:44	877-09-8	
Decachlorobiphenyl (S)	96	%	47-145		3	09/30/08 13:30	10/10/08 04:44	2051-24-3	
Lipid	Analytical Method: Pace Lipid								
Lipid	**0.46**	%		0.10	1		10/06/08 07:57		

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ANALYTICAL RESULTS

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 409155

Sample: BL-MR1-AC1-G, 9/16/08 **Lab ID: 409155010** Collected: 09/16/08 00:00 Received: 09/18/08 13:05 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCBs, Tissue	Analytical Method: EPA 8082 Preparation Method: EPA 3540								
PCB-1016 (Aroclor 1016)	**<95.0**	ug/kg	250	95.0	5	09/30/08 13:30	10/10/08 05:10	12674-11-2	
PCB-1221 (Aroclor 1221)	**<95.0**	ug/kg	250	95.0	5	09/30/08 13:30	10/10/08 05:10	11104-28-2	
PCB-1232 (Aroclor 1232)	**<95.0**	ug/kg	250	95.0	5	09/30/08 13:30	10/10/08 05:10	11141-16-5	
PCB-1242 (Aroclor 1242)	**<95.0**	ug/kg	250	95.0	5	09/30/08 13:30	10/10/08 05:10	53469-21-9	
PCB-1248 (Aroclor 1248)	**1460**	ug/kg	250	95.0	5	09/30/08 13:30	10/10/08 05:10	12672-29-6	
PCB-1254 (Aroclor 1254)	**605**	ug/kg	250	95.0	5	09/30/08 13:30	10/10/08 05:10	11097-69-1	
PCB-1260 (Aroclor 1260)	**<95.0**	ug/kg	250	95.0	5	09/30/08 13:30	10/10/08 05:10	11096-82-5	
PCB, Total	**2060**	ug/kg	250	95.0	5	09/30/08 13:30	10/10/08 05:10	1336-36-3	
Tetrachloro-m-xylene (S)	90	%	40-136		5	09/30/08 13:30	10/10/08 05:10	877-09-8	
Decachlorobiphenyl (S)	101	%	47-145		5	09/30/08 13:30	10/10/08 05:10	2051-24-3	
Lipid	Analytical Method: Pace Lipid								
Lipid	**1.2**	%		0.10	1		10/06/08 07:57		

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ANALYTICAL RESULTS

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 409155

Sample: BL-MR1-AC2-G, 9/16/08 **Lab ID: 409155011** Collected: 09/16/08 00:00 Received: 09/18/08 13:05 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCBs, Tissue	Analytical Method: EPA 8082 Preparation Method: EPA 3540								
PCB-1016 (Aroclor 1016)	**<76.0**	ug/kg	200	76.0	4	09/30/08 13:30	10/10/08 05:36	12674-11-2	
PCB-1221 (Aroclor 1221)	**<76.0**	ug/kg	200	76.0	4	09/30/08 13:30	10/10/08 05:36	11104-28-2	
PCB-1232 (Aroclor 1232)	**<76.0**	ug/kg	200	76.0	4	09/30/08 13:30	10/10/08 05:36	11141-16-5	
PCB-1242 (Aroclor 1242)	**<76.0**	ug/kg	200	76.0	4	09/30/08 13:30	10/10/08 05:36	53469-21-9	
PCB-1248 (Aroclor 1248)	**1220**	ug/kg	200	76.0	4	09/30/08 13:30	10/10/08 05:36	12672-29-6	
PCB-1254 (Aroclor 1254)	**487**	ug/kg	200	76.0	4	09/30/08 13:30	10/10/08 05:36	11097-69-1	
PCB-1260 (Aroclor 1260)	**<76.0**	ug/kg	200	76.0	4	09/30/08 13:30	10/10/08 05:36	11096-82-5	
PCB, Total	**1710**	ug/kg	200	76.0	4	09/30/08 13:30	10/10/08 05:36	1336-36-3	
Tetrachloro-m-xylene (S)	88	%	40-136		4	09/30/08 13:30	10/10/08 05:36	877-09-8	
Decachlorobiphenyl (S)	98	%	47-145		4	09/30/08 13:30	10/10/08 05:36	2051-24-3	
Lipid	Analytical Method: Pace Lipid								
Lipid	**0.77**	%		0.10	1		10/06/08 07:57		

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ANALYTICAL RESULTS

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 409155

Sample: BL-MR1-AC3-G, 9/16/08 **Lab ID: 409155012** Collected: 09/16/08 00:00 Received: 09/18/08 13:05 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCBs, Tissue	Analytical Method: EPA 8082 Preparation Method: EPA 3540								
PCB-1016 (Aroclor 1016)	**<76.0**	ug/kg	200	76.0	4	09/30/08 13:30	10/10/08 06:02	12674-11-2	
PCB-1221 (Aroclor 1221)	**<76.0**	ug/kg	200	76.0	4	09/30/08 13:30	10/10/08 06:02	11104-28-2	
PCB-1232 (Aroclor 1232)	**<76.0**	ug/kg	200	76.0	4	09/30/08 13:30	10/10/08 06:02	11141-16-5	
PCB-1242 (Aroclor 1242)	**<76.0**	ug/kg	200	76.0	4	09/30/08 13:30	10/10/08 06:02	53469-21-9	
PCB-1248 (Aroclor 1248)	**835**	ug/kg	200	76.0	4	09/30/08 13:30	10/10/08 06:02	12672-29-6	
PCB-1254 (Aroclor 1254)	**492**	ug/kg	200	76.0	4	09/30/08 13:30	10/10/08 06:02	11097-69-1	
PCB-1260 (Aroclor 1260)	**<76.0**	ug/kg	200	76.0	4	09/30/08 13:30	10/10/08 06:02	11096-82-5	
PCB, Total	**1330**	ug/kg	200	76.0	4	09/30/08 13:30	10/10/08 06:02	1336-36-3	
Tetrachloro-m-xylene (S)	90	%	40-136		4	09/30/08 13:30	10/10/08 06:02	877-09-8	
Decachlorobiphenyl (S)	101	%	47-145		4	09/30/08 13:30	10/10/08 06:02	2051-24-3	
Lipid	Analytical Method: Pace Lipid								
Lipid	**0.39**	%		0.10	1		10/06/08 07:57		

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ANALYTICAL RESULTS

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 409155

Sample: BL-MR1-AC4-G, 9/16/08 **Lab ID: 409155013** Collected: 09/16/08 00:00 Received: 09/18/08 13:05 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCBs, Tissue	Analytical Method: EPA 8082 Preparation Method: EPA 3540								
PCB-1016 (Aroclor 1016)	**<95.0**	ug/kg	250	95.0	5	09/30/08 13:30	10/10/08 06:28	12674-11-2	
PCB-1221 (Aroclor 1221)	**<95.0**	ug/kg	250	95.0	5	09/30/08 13:30	10/10/08 06:28	11104-28-2	
PCB-1232 (Aroclor 1232)	**<95.0**	ug/kg	250	95.0	5	09/30/08 13:30	10/10/08 06:28	11141-16-5	
PCB-1242 (Aroclor 1242)	**<95.0**	ug/kg	250	95.0	5	09/30/08 13:30	10/10/08 06:28	53469-21-9	
PCB-1248 (Aroclor 1248)	**1670**	ug/kg	250	95.0	5	09/30/08 13:30	10/10/08 06:28	12672-29-6	
PCB-1254 (Aroclor 1254)	**743**	ug/kg	250	95.0	5	09/30/08 13:30	10/10/08 06:28	11097-69-1	
PCB-1260 (Aroclor 1260)	**99.9J**	ug/kg	250	95.0	5	09/30/08 13:30	10/10/08 06:28	11096-82-5	
PCB, Total	**2510**	ug/kg	250	95.0	5	09/30/08 13:30	10/10/08 06:28	1336-36-3	
Tetrachloro-m-xylene (S)	90	%	40-136		5	09/30/08 13:30	10/10/08 06:28	877-09-8	
Decachlorobiphenyl (S)	101	%	47-145		5	09/30/08 13:30	10/10/08 06:28	2051-24-3	
Lipid	Analytical Method: Pace Lipid								
Lipid	**3.2**	%		0.10	1		10/06/08 07:57		

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ANALYTICAL RESULTS

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 409155

Sample: BL-MR1-AC5-G, 9/16/08 **Lab ID: 409155014** Collected: 09/16/08 00:00 Received: 09/18/08 13:05 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCBs, Tissue	Analytical Method: EPA 8082 Preparation Method: EPA 3540								
PCB-1016 (Aroclor 1016)	**<76.0**	ug/kg	200	76.0	4	09/30/08 13:30	10/10/08 06:53	12674-11-2	
PCB-1221 (Aroclor 1221)	**<76.0**	ug/kg	200	76.0	4	09/30/08 13:30	10/10/08 06:53	11104-28-2	
PCB-1232 (Aroclor 1232)	**<76.0**	ug/kg	200	76.0	4	09/30/08 13:30	10/10/08 06:53	11141-16-5	
PCB-1242 (Aroclor 1242)	**<76.0**	ug/kg	200	76.0	4	09/30/08 13:30	10/10/08 06:53	53469-21-9	
PCB-1248 (Aroclor 1248)	**1050**	ug/kg	200	76.0	4	09/30/08 13:30	10/10/08 06:53	12672-29-6	
PCB-1254 (Aroclor 1254)	**570**	ug/kg	200	76.0	4	09/30/08 13:30	10/10/08 06:53	11097-69-1	
PCB-1260 (Aroclor 1260)	**<76.0**	ug/kg	200	76.0	4	09/30/08 13:30	10/10/08 06:53	11096-82-5	
PCB, Total	**1620**	ug/kg	200	76.0	4	09/30/08 13:30	10/10/08 06:53	1336-36-3	
Tetrachloro-m-xylene (S)	89	%	40-136		4	09/30/08 13:30	10/10/08 06:53	877-09-8	
Decachlorobiphenyl (S)	99	%	47-145		4	09/30/08 13:30	10/10/08 06:53	2051-24-3	
Lipid	Analytical Method: Pace Lipid								
Lipid	**0.84**	%		0.10	1		10/06/08 07:58		

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ANALYTICAL RESULTS

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 409155

Sample: BL-MR1-AC6-G, 9/16/08 **Lab ID: 409155015** Collected: 09/16/08 00:00 Received: 09/18/08 13:05 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCBs, Tissue	Analytical Method: EPA 8082 Preparation Method: EPA 3540								
PCB-1016 (Aroclor 1016)	**<76.0**	ug/kg	200	76.0	4	09/30/08 13:30	10/10/08 07:19	12674-11-2	
PCB-1221 (Aroclor 1221)	**<76.0**	ug/kg	200	76.0	4	09/30/08 13:30	10/10/08 07:19	11104-28-2	
PCB-1232 (Aroclor 1232)	**<76.0**	ug/kg	200	76.0	4	09/30/08 13:30	10/10/08 07:19	11141-16-5	
PCB-1242 (Aroclor 1242)	**<76.0**	ug/kg	200	76.0	4	09/30/08 13:30	10/10/08 07:19	53469-21-9	
PCB-1248 (Aroclor 1248)	**850**	ug/kg	200	76.0	4	09/30/08 13:30	10/10/08 07:19	12672-29-6	
PCB-1254 (Aroclor 1254)	**349**	ug/kg	200	76.0	4	09/30/08 13:30	10/10/08 07:19	11097-69-1	
PCB-1260 (Aroclor 1260)	**77.4J**	ug/kg	200	76.0	4	09/30/08 13:30	10/10/08 07:19	11096-82-5	
PCB, Total	**1280**	ug/kg	200	76.0	4	09/30/08 13:30	10/10/08 07:19	1336-36-3	
Tetrachloro-m-xylene (S)	84	%	40-136		4	09/30/08 13:30	10/10/08 07:19	877-09-8	
Decachlorobiphenyl (S)	97	%	47-145		4	09/30/08 13:30	10/10/08 07:19	2051-24-3	
Lipid	Analytical Method: Pace Lipid								
Lipid	**1.2**	%		0.10	1		10/06/08 07:58		

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ANALYTICAL RESULTS

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 409155

Sample: BL-MR1-AC7-G, 9/16/08 **Lab ID: 409155016** Collected: 09/16/08 00:00 Received: 09/18/08 13:05 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCBs, Tissue	Analytical Method: EPA 8082 Preparation Method: EPA 3540								
PCB-1016 (Aroclor 1016)	**<190**	ug/kg	500	190	10	09/30/08 13:30	10/10/08 07:45	12674-11-2	
PCB-1221 (Aroclor 1221)	**<190**	ug/kg	500	190	10	09/30/08 13:30	10/10/08 07:45	11104-28-2	
PCB-1232 (Aroclor 1232)	**<190**	ug/kg	500	190	10	09/30/08 13:30	10/10/08 07:45	11141-16-5	
PCB-1242 (Aroclor 1242)	**<190**	ug/kg	500	190	10	09/30/08 13:30	10/10/08 07:45	53469-21-9	
PCB-1248 (Aroclor 1248)	**1470**	ug/kg	500	190	10	09/30/08 13:30	10/10/08 07:45	12672-29-6	
PCB-1254 (Aroclor 1254)	**736**	ug/kg	500	190	10	09/30/08 13:30	10/10/08 07:45	11097-69-1	
PCB-1260 (Aroclor 1260)	**<190**	ug/kg	500	190	10	09/30/08 13:30	10/10/08 07:45	11096-82-5	
PCB, Total	**2210**	ug/kg	500	190	10	09/30/08 13:30	10/10/08 07:45	1336-36-3	
Tetrachloro-m-xylene (S)	89	%	40-136		10	09/30/08 13:30	10/10/08 07:45	877-09-8	
Decachlorobiphenyl (S)	102	%	47-145		10	09/30/08 13:30	10/10/08 07:45	2051-24-3	
Lipid	Analytical Method: Pace Lipid								
Lipid	**1.1**	%		0.10	1		10/06/08 07:58		

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ANALYTICAL RESULTS

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 409155

Sample: BL-MR1-AC8-G, 9/16/08 **Lab ID: 409155017** Collected: 09/16/08 00:00 Received: 09/18/08 13:05 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCBs, Tissue	Analytical Method: EPA 8082 Preparation Method: EPA 3540								
PCB-1016 (Aroclor 1016)	**<1900**	ug/kg	5000	1900	100	09/30/08 13:30	10/10/08 08:10	12674-11-2	
PCB-1221 (Aroclor 1221)	**<1900**	ug/kg	5000	1900	100	09/30/08 13:30	10/10/08 08:10	11104-28-2	
PCB-1232 (Aroclor 1232)	**<1900**	ug/kg	5000	1900	100	09/30/08 13:30	10/10/08 08:10	11141-16-5	
PCB-1242 (Aroclor 1242)	**<1900**	ug/kg	5000	1900	100	09/30/08 13:30	10/10/08 08:10	53469-21-9	
PCB-1248 (Aroclor 1248)	**14000**	ug/kg	5000	1900	100	09/30/08 13:30	10/10/08 08:10	12672-29-6	
PCB-1254 (Aroclor 1254)	**8860**	ug/kg	5000	1900	100	09/30/08 13:30	10/10/08 08:10	11097-69-1	
PCB-1260 (Aroclor 1260)	**<1900**	ug/kg	5000	1900	100	09/30/08 13:30	10/10/08 08:10	11096-82-5	
PCB, Total	**22800**	ug/kg	5000	1900	100	09/30/08 13:30	10/10/08 08:10	1336-36-3	
Tetrachloro-m-xylene (S)	0	%	40-136		100	09/30/08 13:30	10/10/08 08:10	877-09-8	S4
Decachlorobiphenyl (S)	0	%	47-145		100	09/30/08 13:30	10/10/08 08:10	2051-24-3	S4
Lipid	Analytical Method: Pace Lipid								
Lipid	**3.2**	%		0.10	1		10/06/08 07:58		

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ANALYTICAL RESULTS

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 409155

Sample: BL-MR1-SB1-G, 9/16/08 **Lab ID: 409155018** Collected: 09/16/08 00:00 Received: 09/18/08 13:05 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCBs, Tissue	Analytical Method: EPA 8082 Preparation Method: EPA 3540								
PCB-1016 (Aroclor 1016)	**<950**	ug/kg	2500	950	50	09/30/08 13:30	10/10/08 08:36	12674-11-2	
PCB-1221 (Aroclor 1221)	**<950**	ug/kg	2500	950	50	09/30/08 13:30	10/10/08 08:36	11104-28-2	
PCB-1232 (Aroclor 1232)	**<950**	ug/kg	2500	950	50	09/30/08 13:30	10/10/08 08:36	11141-16-5	
PCB-1242 (Aroclor 1242)	**<950**	ug/kg	2500	950	50	09/30/08 13:30	10/10/08 08:36	53469-21-9	
PCB-1248 (Aroclor 1248)	**7150**	ug/kg	2500	950	50	09/30/08 13:30	10/10/08 08:36	12672-29-6	
PCB-1254 (Aroclor 1254)	**6920**	ug/kg	2500	950	50	09/30/08 13:30	10/10/08 08:36	11097-69-1	
PCB-1260 (Aroclor 1260)	**<950**	ug/kg	2500	950	50	09/30/08 13:30	10/10/08 08:36	11096-82-5	
PCB, Total	**14100**	ug/kg	2500	950	50	09/30/08 13:30	10/10/08 08:36	1336-36-3	
Tetrachloro-m-xylene (S)	0	%	40-136		50	09/30/08 13:30	10/10/08 08:36	877-09-8	S4
Decachlorobiphenyl (S)	0	%	47-145		50	09/30/08 13:30	10/10/08 08:36	2051-24-3	S4
Lipid	Analytical Method: Pace Lipid								
Lipid	**1.4**	%		0.10	1		10/06/08 07:59		

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ANALYTICAL RESULTS

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 409155

Sample: BL-MR1-SB2-G, 9/16/08 **Lab ID: 409155019** Collected: 09/16/08 00:00 Received: 09/18/08 13:05 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCBs, Tissue	Analytical Method: EPA 8082 Preparation Method: EPA 3540								
PCB-1016 (Aroclor 1016)	**<380**	ug/kg	1000	380	20	09/30/08 13:30	10/10/08 09:02	12674-11-2	
PCB-1221 (Aroclor 1221)	**<380**	ug/kg	1000	380	20	09/30/08 13:30	10/10/08 09:02	11104-28-2	
PCB-1232 (Aroclor 1232)	**<380**	ug/kg	1000	380	20	09/30/08 13:30	10/10/08 09:02	11141-16-5	
PCB-1242 (Aroclor 1242)	**<380**	ug/kg	1000	380	20	09/30/08 13:30	10/10/08 09:02	53469-21-9	
PCB-1248 (Aroclor 1248)	**3610**	ug/kg	1000	380	20	09/30/08 13:30	10/10/08 09:02	12672-29-6	
PCB-1254 (Aroclor 1254)	**2430**	ug/kg	1000	380	20	09/30/08 13:30	10/10/08 09:02	11097-69-1	
PCB-1260 (Aroclor 1260)	**<380**	ug/kg	1000	380	20	09/30/08 13:30	10/10/08 09:02	11096-82-5	
PCB, Total	**6040**	ug/kg	1000	380	20	09/30/08 13:30	10/10/08 09:02	1336-36-3	
Tetrachloro-m-xylene (S)	0	%	40-136		20	09/30/08 13:30	10/10/08 09:02	877-09-8	S4
Decachlorobiphenyl (S)	0	%	47-145		20	09/30/08 13:30	10/10/08 09:02	2051-24-3	S4
Lipid	Analytical Method: Pace Lipid								
Lipid	**2.3**	%		0.10	1		10/06/08 07:59		

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ANALYTICAL RESULTS

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 409155

Sample: BL-MR1-SB3-G, 9/16/08 **Lab ID: 409155020** Collected: 09/16/08 00:00 Received: 09/18/08 13:05 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCBs, Tissue	Analytical Method: EPA 8082 Preparation Method: EPA 3540								
PCB-1016 (Aroclor 1016)	**<380**	ug/kg	1000	380	20	09/30/08 13:30	10/10/08 09:28	12674-11-2	
PCB-1221 (Aroclor 1221)	**<380**	ug/kg	1000	380	20	09/30/08 13:30	10/10/08 09:28	11104-28-2	
PCB-1232 (Aroclor 1232)	**<380**	ug/kg	1000	380	20	09/30/08 13:30	10/10/08 09:28	11141-16-5	
PCB-1242 (Aroclor 1242)	**<380**	ug/kg	1000	380	20	09/30/08 13:30	10/10/08 09:28	53469-21-9	
PCB-1248 (Aroclor 1248)	**2940**	ug/kg	1000	380	20	09/30/08 13:30	10/10/08 09:28	12672-29-6	
PCB-1254 (Aroclor 1254)	**2830**	ug/kg	1000	380	20	09/30/08 13:30	10/10/08 09:28	11097-69-1	
PCB-1260 (Aroclor 1260)	**<380**	ug/kg	1000	380	20	09/30/08 13:30	10/10/08 09:28	11096-82-5	
PCB, Total	**5770**	ug/kg	1000	380	20	09/30/08 13:30	10/10/08 09:28	1336-36-3	
Tetrachloro-m-xylene (S)	0	%	40-136		20	09/30/08 13:30	10/10/08 09:28	877-09-8	S4
Decachlorobiphenyl (S)	0	%	47-145		20	09/30/08 13:30	10/10/08 09:28	2051-24-3	S4
Lipid	Analytical Method: Pace Lipid								
Lipid	**1.1**	%		0.10	1		10/06/08 07:59		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 409155

QC Batch: OEXT/2810 Analysis Method: EPA 8082
QC Batch Method: EPA 3540 Analysis Description: 8082 GCS Tissue Pesticides
Associated Lab Samples: 409155001, 409155002, 409155003, 409155004, 409155005, 409155006, 409155007, 409155008, 409155009, 409155010, 409155011, 409155012, 409155013, 409155014, 409155015, 409155016, 409155017, 409155018, 409155019, 409155020

METHOD BLANK: 82616 Matrix: Tissue
Associated Lab Samples: 409155001, 409155002, 409155003, 409155004, 409155005, 409155006, 409155007, 409155008, 409155009, 409155010, 409155011, 409155012, 409155013, 409155014, 409155015, 409155016, 409155017, 409155018, 409155019, 409155020

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg	<19.0	50.0	10/09/08 22:43	
PCB-1221 (Aroclor 1221)	ug/kg	<19.0	50.0	10/09/08 22:43	
PCB-1232 (Aroclor 1232)	ug/kg	<19.0	50.0	10/09/08 22:43	
PCB-1242 (Aroclor 1242)	ug/kg	<19.0	50.0	10/09/08 22:43	
PCB-1248 (Aroclor 1248)	ug/kg	<19.0	50.0	10/09/08 22:43	
PCB-1254 (Aroclor 1254)	ug/kg	<19.0	50.0	10/09/08 22:43	
PCB-1260 (Aroclor 1260)	ug/kg	<19.0	50.0	10/09/08 22:43	
Decachlorobiphenyl (S)	%	91	47-145	10/09/08 22:43	
Tetrachloro-m-xylene (S)	%	89	40-136	10/09/08 22:43	

LABORATORY CONTROL SAMPLE: 82617

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg		<19.0			
PCB-1221 (Aroclor 1221)	ug/kg		<19.0			
PCB-1232 (Aroclor 1232)	ug/kg		<19.0			
PCB-1242 (Aroclor 1242)	ug/kg	250	236	95	40-128	
PCB-1248 (Aroclor 1248)	ug/kg		<19.0			
PCB-1254 (Aroclor 1254)	ug/kg		<19.0			
PCB-1260 (Aroclor 1260)	ug/kg		<19.0			
Decachlorobiphenyl (S)	%			88	47-145	
Tetrachloro-m-xylene (S)	%			84	40-136	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 82618 82619

Parameter	Units	409155004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
PCB-1016 (Aroclor 1016)	ug/kg	<76.0			<190	<190					56	
PCB-1221 (Aroclor 1221)	ug/kg	<76.0			<190	<190					56	
PCB-1232 (Aroclor 1232)	ug/kg	<76.0			<190	<190					56	
PCB-1242 (Aroclor 1242)	ug/kg	<76.0	1000	1000	<190	<190	0	0	43-130		56	M0
PCB-1248 (Aroclor 1248)	ug/kg	768			2010	2010				.2	56	
PCB-1254 (Aroclor 1254)	ug/kg	506			750	724				4	56	
PCB-1260 (Aroclor 1260)	ug/kg	<76.0			<190	<190					56	
Decachlorobiphenyl (S)	%						98	102	47-145			
Tetrachloro-m-xylene (S)	%						88	91	40-136			

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QUALITY CONTROL DATA

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 409155

QC Batch: OEXT/2846 Analysis Method: Pace Lipid
QC Batch Method: Pace Lipid Analysis Description: LIPID
Associated Lab Samples: 409155001, 409155002, 409155003, 409155004, 409155005, 409155006, 409155007, 409155008, 409155009, 409155010, 409155011, 409155012, 409155013, 409155014, 409155015, 409155016, 409155017, 409155018, 409155019, 409155020

METHOD BLANK: 84324 Matrix: Tissue
Associated Lab Samples: 409155001, 409155002, 409155003, 409155004, 409155005, 409155006, 409155007, 409155008, 409155009, 409155010, 409155011, 409155012, 409155013, 409155014, 409155015, 409155016, 409155017, 409155018, 409155019, 409155020

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lipid	%	<0.10		10/06/08 07:53	

SAMPLE DUPLICATE: 84325

Parameter	Units	409155004 Result	Dup Result	RPD	Max RPD	Qualifiers
Lipid	%	0.73	0.90	20	20	

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QUALIFIERS

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 409155

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

Pace Analytical is NELAP accredited. Contact your Pace PM for the current list of accredited analytes.

ANALYTE QUALIFIERS

M0	Matrix spike recovery was outside laboratory control limits.
S4	Surrogate recovery not evaluated against control limits due to sample dilution.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 409155

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
409155001	**BL-MR2-RB6-G, 9/15/08**	EPA 3540	OEXT/2810	EPA 8082	GCSV/1969
409155002	**BL-MR2-RB7-G, 9/15/08**	EPA 3540	OEXT/2810	EPA 8082	GCSV/1969
409155003	**BL-MR2-RB8-G, 9/15/08**	EPA 3540	OEXT/2810	EPA 8082	GCSV/1969
409155004	**BL-MR2-AC1-G, 9/15/08**	EPA 3540	OEXT/2810	EPA 8082	GCSV/1969
409155005	**BL-MR2-JWS3-G, 9/15/08**	EPA 3540	OEXT/2810	EPA 8082	GCSV/1969
409155006	**BL-MR2-JWS4-G, 9/15/08**	EPA 3540	OEXT/2810	EPA 8082	GCSV/1969
409155007	**BL-MR2-JWS5-G, 9/15/08**	EPA 3540	OEXT/2810	EPA 8082	GCSV/1969
409155008	**BL-MR2-JWS6-G, 9/15/08**	EPA 3540	OEXT/2810	EPA 8082	GCSV/1969
409155009	**BL-MR2-JWS7-G, 9/15/08**	EPA 3540	OEXT/2810	EPA 8082	GCSV/1969
409155010	**BL-MR1-AC1-G, 9/16/08**	EPA 3540	OEXT/2810	EPA 8082	GCSV/1969
409155011	**BL-MR1-AC2-G, 9/16/08**	EPA 3540	OEXT/2810	EPA 8082	GCSV/1969
409155012	**BL-MR1-AC3-G, 9/16/08**	EPA 3540	OEXT/2810	EPA 8082	GCSV/1969
409155013	**BL-MR1-AC4-G, 9/16/08**	EPA 3540	OEXT/2810	EPA 8082	GCSV/1969
409155014	**BL-MR1-AC5-G, 9/16/08**	EPA 3540	OEXT/2810	EPA 8082	GCSV/1969
409155015	**BL-MR1-AC6-G, 9/16/08**	EPA 3540	OEXT/2810	EPA 8082	GCSV/1969
409155016	**BL-MR1-AC7-G, 9/16/08**	EPA 3540	OEXT/2810	EPA 8082	GCSV/1969
409155017	**BL-MR1-AC8-G, 9/16/08**	EPA 3540	OEXT/2810	EPA 8082	GCSV/1969
409155018	**BL-MR1-SB1-G, 9/16/08**	EPA 3540	OEXT/2810	EPA 8082	GCSV/1969
409155019	**BL-MR1-SB2-G, 9/16/08**	EPA 3540	OEXT/2810	EPA 8082	GCSV/1969
409155020	**BL-MR1-SB3-G, 9/16/08**	EPA 3540	OEXT/2810	EPA 8082	GCSV/1969
409155001	**BL-MR2-RB6-G, 9/15/08**	Pace Lipid	OEXT/2846		
409155002	**BL-MR2-RB7-G, 9/15/08**	Pace Lipid	OEXT/2846		
409155003	**BL-MR2-RB8-G, 9/15/08**	Pace Lipid	OEXT/2846		
409155004	**BL-MR2-AC1-G, 9/15/08**	Pace Lipid	OEXT/2846		
409155005	**BL-MR2-JWS3-G, 9/15/08**	Pace Lipid	OEXT/2846		
409155006	**BL-MR2-JWS4-G, 9/15/08**	Pace Lipid	OEXT/2846		
409155007	**BL-MR2-JWS5-G, 9/15/08**	Pace Lipid	OEXT/2846		
409155008	**BL-MR2-JWS6-G, 9/15/08**	Pace Lipid	OEXT/2846		
409155009	**BL-MR2-JWS7-G, 9/15/08**	Pace Lipid	OEXT/2846		
409155010	**BL-MR1-AC1-G, 9/16/08**	Pace Lipid	OEXT/2846		
409155011	**BL-MR1-AC2-G, 9/16/08**	Pace Lipid	OEXT/2846		
409155012	**BL-MR1-AC3-G, 9/16/08**	Pace Lipid	OEXT/2846		
409155013	**BL-MR1-AC4-G, 9/16/08**	Pace Lipid	OEXT/2846		
409155014	**BL-MR1-AC5-G, 9/16/08**	Pace Lipid	OEXT/2846		
409155015	**BL-MR1-AC6-G, 9/16/08**	Pace Lipid	OEXT/2846		
409155016	**BL-MR1-AC7-G, 9/16/08**	Pace Lipid	OEXT/2846		
409155017	**BL-MR1-AC8-G, 9/16/08**	Pace Lipid	OEXT/2846		
409155018	**BL-MR1-SB1-G, 9/16/08**	Pace Lipid	OEXT/2846		
409155019	**BL-MR1-SB2-G, 9/16/08**	Pace Lipid	OEXT/2846		
409155020	**BL-MR1-SB3-G, 9/16/08**	Pace Lipid	OEXT/2846		

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October 22, 2008

BRANDY PROFFITT
POLLUTION RISK SERVICES
7870 EAST KEMPER ROAD
SUITE 240
Cincinnati, OH 45249

RE: Project: SHEBOYGAN RIVER CB08-002
Pace Project No.: 408870

Dear BRANDY PROFFITT:
Enclosed are the analytical results for sample(s) received by the laboratory on September 11, 2008. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Tod Noltemeyer

Tod Noltemeyer

tod.noltemeyer@pacelabs.com
Project Manager

Enclosures

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CERTIFICATIONS

Project: SHEBOYGAN RIVER CB08-002
Pace Project No.: 408870

Green Bay Certification IDs

Louisiana Certification #: 04169
Louisiana Certification #: 04168
Kentucky Certification #: 83
Kentucky Certification #: 82
Wisconsin DATCP Certification #: 105-444
Wisconsin DATCP Certification #: 105-444
Wisconsin Certification #: 405132750
Wisconsin Certification #: 405132750
South Carolina Certification #: 83006001
South Carolina Certification #: 83006001
Minnesota Certification #: 055-999-334
Minnesota Certification #: 055-999-334
North Carolina Certification #: 503
North Carolina Certification #: 503
North Dakota Certification #: R-200
North Dakota Certification #: R-150
New York Certification #: 11888
New York Certification #: 11887
Illinois Certification #: 200051
Illinois Certification #: 200050
Florida (NELAP) Certification #: E87951
Florida (NELAP) Certification #: E87948

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SAMPLE SUMMARY

Project: SHEBOYGAN RIVER CB08-002
Pace Project No.: 408870

Lab ID	Sample ID	Matrix	Date Collected	Date Received
408870001	BL-MR2-SB6-G, 9/8/08	Tissue	09/08/08 00:00	09/11/08 12:35
408870002	BL-MR2-SB7-G, 9/8/08	Tissue	09/08/08 00:00	09/11/08 12:35
408870003	BL-MR2-SB8-G, 9/8/08	Tissue	09/08/08 00:00	09/11/08 12:35
408870004	BL-MR2-AWS1-G, 9/8/08	Tissue	09/08/08 00:00	09/11/08 12:35
408870005	BL-MR2-AWS2-G, 9/8/08	Tissue	09/08/08 00:00	09/11/08 12:35
408870006	BL-MR2-AWS3-G, 9/8/08	Tissue	09/08/08 00:00	09/11/08 12:35
408870007	BL-MR2-AWS4-G, 9/8/08	Tissue	09/08/08 00:00	09/11/08 12:35
408870008	BL-MR2-AWS5-G, 9/8/08	Tissue	09/08/08 00:00	09/11/08 12:35
408870009	BL-MR2-AWS6-G, 9/8/08	Tissue	09/08/08 00:00	09/11/08 12:35
408870010	BL-MR2-AWS7-G, 9/8/08	Tissue	09/08/08 00:00	09/11/08 12:35
408870011	BL-MR2-AWS8-G, 9/8/08	Tissue	09/08/08 00:00	09/11/08 12:35
408870012	BL-MR2-JWS1-G, 9/8/08	Tissue	09/08/08 00:00	09/11/08 12:35
408870013	BL-MR2-JWS2-G, 9/8/08	Tissue	09/08/08 00:00	09/11/08 12:35
408870014	BL-MR2-RB1-G, 9/8/08	Tissue	09/08/08 00:00	09/11/08 12:35
408870015	BL-MR2-RB2-G, 9/8/08	Tissue	09/08/08 00:00	09/11/08 12:35
408870016	BL-MR2-CC1-G, 9/8/08	Tissue	09/08/08 00:00	09/11/08 12:35
408870017	BL-MR2-LD1-G, 9/10/08	Tissue	09/10/08 00:00	09/11/08 12:35
408870018	BL-MR2-LD2-G, 9/10/08	Tissue	09/10/08 00:00	09/11/08 12:35
408870019	BL-MR2-LD3-G, 9/10/08	Tissue	09/10/08 00:00	09/11/08 12:35
408870020	BL-MR2-LD4-G, 9/10/08	Tissue	09/10/08 00:00	09/11/08 12:35

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SAMPLE ANALYTE COUNT

Project: SHEBOYGAN RIVER CB08-002
Pace Project No.: 408870

Lab ID	Sample ID	Method	Analysts	Analytes Reported
408870001	BL-MR2-SB6-G, 9/8/08	EPA 8082	CAH	10
		Pace Lipid	DAL	1
408870002	BL-MR2-SB7-G, 9/8/08	EPA 8082	BDS	10
		Pace Lipid	NJB	1
408870003	BL-MR2-SB8-G, 9/8/08	EPA 8082	CAH	10
		Pace Lipid	DAL	1
408870004	BL-MR2-AWS1-G, 9/8/08	EPA 8082	CAH	10
		Pace Lipid	DAL	1
408870005	BL-MR2-AWS2-G, 9/8/08	EPA 8082	CAH	10
		Pace Lipid	DAL	1
408870006	BL-MR2-AWS3-G, 9/8/08	EPA 8082	CAH	10
		Pace Lipid	DAL	1
408870007	BL-MR2-AWS4-G, 9/8/08	EPA 8082	CAH	10
		Pace Lipid	DAL	1
408870008	BL-MR2-AWS5-G, 9/8/08	EPA 8082	CAH	10
		Pace Lipid	DAL	1
408870009	BL-MR2-AWS6-G, 9/8/08	EPA 8082	CAH	10
		Pace Lipid	DAL	1
408870010	BL-MR2-AWS7-G, 9/8/08	EPA 8082	CAH	10
		Pace Lipid	DAL	1
408870011	BL-MR2-AWS8-G, 9/8/08	EPA 8082	CAH	10
		Pace Lipid	DAL	1
408870012	BL-MR2-JWS1-G, 9/8/08	EPA 8082	BDS	10
		Pace Lipid	NJB	1
408870013	BL-MR2-JWS2-G, 9/8/08	EPA 8082	CAH	10
		Pace Lipid	DAL	1
408870014	BL-MR2-RB1-G, 9/8/08	EPA 8082	CAH	10
		Pace Lipid	DAL	1
408870015	BL-MR2-RB2-G, 9/8/08	EPA 8082	CAH	10
		Pace Lipid	DAL	1
408870016	BL-MR2-CC1-G, 9/8/08	EPA 8082	CAH	10
		Pace Lipid	DAL	1
408870017	BL-MR2-LD1-G, 9/10/08	EPA 8082	CAH	10
		Pace Lipid	DAL	1
408870018	BL-MR2-LD2-G, 9/10/08	EPA 8082	CAH	10
		Pace Lipid	DAL	1
408870019	BL-MR2-LD3-G, 9/10/08	EPA 8082	CAH	10

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SAMPLE ANALYTE COUNT

Project: SHEBOYGAN RIVER CB08-002
Pace Project No.: 408870

Lab ID	Sample ID	Method	Analysts	Analytes Reported
		Pace Lipid	DAL	1
408870020	**BL-MR2-LD4-G, 9/10/08**	EPA 8082	CAH	10
		Pace Lipid	DAL	1

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PROJECT NARRATIVE

Project: SHEBOYGAN RIVER CB08-002
Pace Project No.: 408870

Method: **EPA 8082**
Description: 8082 GCS PCBs, Tissue
Client: POLLUTION RISK SERVICES
Date: October 22, 2008

General Information:
20 samples were analyzed for EPA 8082. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 3540 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

QC Batch: OEXT/2796

S4: Surrogate recovery not evaluated against control limits due to sample dilution.

- BL-MR2-AWS6-G, 9/8/08 (Lab ID: 408870009)
  - Decachlorobiphenyl (S)
  - Tetrachloro-m-xylene (S)
- BL-MR2-AWS7-G, 9/8/08 (Lab ID: 408870010)
  - Decachlorobiphenyl (S)
  - Tetrachloro-m-xylene (S)
- BL-MR2-AWS8-G, 9/8/08 (Lab ID: 408870011)
  - Decachlorobiphenyl (S)
  - Tetrachloro-m-xylene (S)
- BL-MR2-CC1-G, 9/8/08 (Lab ID: 408870016)
  - Decachlorobiphenyl (S)
  - Tetrachloro-m-xylene (S)
- BL-MR2-SB8-G, 9/8/08 (Lab ID: 408870003)
  - Decachlorobiphenyl (S)
  - Tetrachloro-m-xylene (S)

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

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PROJECT NARRATIVE

Project: SHEBOYGAN RIVER CB08-002
Pace Project No.: 408870

Method: **EPA 8082**
Description: 8082 GCS PCBs, Tissue
Client: POLLUTION RISK SERVICES
Date: October 22, 2008

QC Batch: OEXT/2796

A matrix spike and matrix spike duplicate (MS/MSD) were performed on the following sample(s): 408870001

M0: Matrix spike recovery was outside laboratory control limits.

- MS (Lab ID: 82239)
  - PCB-1242 (Aroclor 1242)
- MSD (Lab ID: 82240)
  - PCB-1242 (Aroclor 1242)

QC Batch: GCSV/2002

A matrix spike/matrix spike duplicate was not performed due to insufficient sample volume.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: SHEBOYGAN RIVER CB08-002
Pace Project No.: 408870

Method: **Pace Lipid**
Description: Lipid
Client: POLLUTION RISK SERVICES
Date: October 22, 2008

General Information:
20 samples were analyzed for Pace Lipid. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

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ANALYTICAL RESULTS

Project: SHEBOYGAN RIVER CB08-002
Pace Project No.: 408870

Sample: BL-MR2-SB6-G, 9/8/08 **Lab ID: 408870001** Collected: 09/08/08 00:00 Received: 09/11/08 12:35 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCBs, Tissue	Analytical Method: EPA 8082 Preparation Method: EPA 3540								
PCB-1016 (Aroclor 1016)	**<190**	ug/kg	500	190	10	09/29/08 10:10	10/07/08 14:35	12674-11-2	
PCB-1221 (Aroclor 1221)	**<190**	ug/kg	500	190	10	09/29/08 10:10	10/07/08 14:35	11104-28-2	
PCB-1232 (Aroclor 1232)	**<190**	ug/kg	500	190	10	09/29/08 10:10	10/07/08 14:35	11141-16-5	
PCB-1242 (Aroclor 1242)	**<190**	ug/kg	500	190	10	09/29/08 10:10	10/07/08 14:35	53469-21-9	M0
PCB-1248 (Aroclor 1248)	**1640**	ug/kg	500	190	10	09/29/08 10:10	10/07/08 14:35	12672-29-6	
PCB-1254 (Aroclor 1254)	**1440**	ug/kg	500	190	10	09/29/08 10:10	10/07/08 14:35	11097-69-1	
PCB-1260 (Aroclor 1260)	**<190**	ug/kg	500	190	10	09/29/08 10:10	10/07/08 14:35	11096-82-5	
PCB, Total	**3080**	ug/kg	500	190	10	09/29/08 10:10	10/07/08 14:35	1336-36-3	
Tetrachloro-m-xylene (S)	82	%	40-136		10	09/29/08 10:10	10/07/08 14:35	877-09-8	
Decachlorobiphenyl (S)	93	%	47-145		10	09/29/08 10:10	10/07/08 14:35	2051-24-3	
Lipid	Analytical Method: Pace Lipid								
Lipid	**1.1**	%		0.10	1		10/06/08 08:18		

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ANALYTICAL RESULTS

Project: SHEBOYGAN RIVER CB08-002
Pace Project No.: 408870

Sample: BL-MR2-SB7-G, 9/8/08 **Lab ID: 408870002** Collected: 09/08/08 00:00 Received: 09/11/08 12:35 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCBs, Tissue	Analytical Method: EPA 8082 Preparation Method: EPA 3540								
PCB-1016 (Aroclor 1016)	**<190**	ug/kg	500	190	10	10/07/08 14:28	10/09/08 23:46	12674-11-2	
PCB-1221 (Aroclor 1221)	**<190**	ug/kg	500	190	10	10/07/08 14:28	10/09/08 23:46	11104-28-2	
PCB-1232 (Aroclor 1232)	**<190**	ug/kg	500	190	10	10/07/08 14:28	10/09/08 23:46	11141-16-5	
PCB-1242 (Aroclor 1242)	**<190**	ug/kg	500	190	10	10/07/08 14:28	10/09/08 23:46	53469-21-9	
PCB-1248 (Aroclor 1248)	**2310**	ug/kg	500	190	10	10/07/08 14:28	10/09/08 23:46	12672-29-6	
PCB-1254 (Aroclor 1254)	**1970**	ug/kg	500	190	10	10/07/08 14:28	10/09/08 23:46	11097-69-1	
PCB-1260 (Aroclor 1260)	**<190**	ug/kg	500	190	10	10/07/08 14:28	10/09/08 23:46	11096-82-5	
PCB, Total	**4280**	ug/kg	500	190	10	10/07/08 14:28	10/09/08 23:46	1336-36-3	
Tetrachloro-m-xylene (S)	94	%	40-136		10	10/07/08 14:28	10/09/08 23:46	877-09-8	
Decachlorobiphenyl (S)	108	%	47-145		10	10/07/08 14:28	10/09/08 23:46	2051-24-3	
Lipid	Analytical Method: Pace Lipid								
Lipid	**1.3**	%		0.10	1		10/20/08 14:33		

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ANALYTICAL RESULTS

Project: SHEBOYGAN RIVER CB08-002
Pace Project No.: 408870

Sample: BL-MR2-SB8-G, 9/8/08 **Lab ID: 408870003** Collected: 09/08/08 00:00 Received: 09/11/08 12:35 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCBs, Tissue	Analytical Method: EPA 8082 Preparation Method: EPA 3540								
PCB-1016 (Aroclor 1016)	**<380**	ug/kg	1000	380	20	09/29/08 10:10	10/07/08 15:01	12674-11-2	
PCB-1221 (Aroclor 1221)	**<380**	ug/kg	1000	380	20	09/29/08 10:10	10/07/08 15:01	11104-28-2	
PCB-1232 (Aroclor 1232)	**<380**	ug/kg	1000	380	20	09/29/08 10:10	10/07/08 15:01	11141-16-5	
PCB-1242 (Aroclor 1242)	**<380**	ug/kg	1000	380	20	09/29/08 10:10	10/07/08 15:01	53469-21-9	
PCB-1248 (Aroclor 1248)	**2160**	ug/kg	1000	380	20	09/29/08 10:10	10/07/08 15:01	12672-29-6	
PCB-1254 (Aroclor 1254)	**1890**	ug/kg	1000	380	20	09/29/08 10:10	10/07/08 15:01	11097-69-1	
PCB-1260 (Aroclor 1260)	**<380**	ug/kg	1000	380	20	09/29/08 10:10	10/07/08 15:01	11096-82-5	
PCB, Total	**4050**	ug/kg	1000	380	20	09/29/08 10:10	10/07/08 15:01	1336-36-3	
Tetrachloro-m-xylene (S)	0	%	40-136		20	09/29/08 10:10	10/07/08 15:01	877-09-8	S4
Decachlorobiphenyl (S)	0	%	47-145		20	09/29/08 10:10	10/07/08 15:01	2051-24-3	S4
Lipid	Analytical Method: Pace Lipid								
Lipid	**1.3**	%		0.10	1		10/06/08 08:18		

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ANALYTICAL RESULTS

Project: SHEBOYGAN RIVER CB08-002
Pace Project No.: 408870

Sample: BL-MR2-AWS1-G, 9/8/08 **Lab ID: 408870004** Collected: 09/08/08 00:00 Received: 09/11/08 12:35 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCBs, Tissue	Analytical Method: EPA 8082 Preparation Method: EPA 3540								
PCB-1016 (Aroclor 1016)	**<190**	ug/kg	500	190	10	09/29/08 10:10	10/07/08 15:27	12674-11-2	
PCB-1221 (Aroclor 1221)	**<190**	ug/kg	500	190	10	09/29/08 10:10	10/07/08 15:27	11104-28-2	
PCB-1232 (Aroclor 1232)	**<190**	ug/kg	500	190	10	09/29/08 10:10	10/07/08 15:27	11141-16-5	
PCB-1242 (Aroclor 1242)	**<190**	ug/kg	500	190	10	09/29/08 10:10	10/07/08 15:27	53469-21-9	
PCB-1248 (Aroclor 1248)	**1320**	ug/kg	500	190	10	09/29/08 10:10	10/07/08 15:27	12672-29-6	
PCB-1254 (Aroclor 1254)	**1720**	ug/kg	500	190	10	09/29/08 10:10	10/07/08 15:27	11097-69-1	
PCB-1260 (Aroclor 1260)	**204J**	ug/kg	500	190	10	09/29/08 10:10	10/07/08 15:27	11096-82-5	
PCB, Total	**3240**	ug/kg	500	190	10	09/29/08 10:10	10/07/08 15:27	1336-36-3	
Tetrachloro-m-xylene (S)	72	%	40-136		10	09/29/08 10:10	10/07/08 15:27	877-09-8	
Decachlorobiphenyl (S)	84	%	47-145		10	09/29/08 10:10	10/07/08 15:27	2051-24-3	
Lipid	Analytical Method: Pace Lipid								
Lipid	**0.20**	%		0.10	1		10/06/08 08:19		

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ANALYTICAL RESULTS

Project: SHEBOYGAN RIVER CB08-002
Pace Project No.: 408870

Sample: BL-MR2-AWS2-G, 9/8/08 **Lab ID: 408870005** Collected: 09/08/08 00:00 Received: 09/11/08 12:35 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCBs, Tissue	Analytical Method: EPA 8082 Preparation Method: EPA 3540								
PCB-1016 (Aroclor 1016)	**<190**	ug/kg	500	190	10	09/29/08 10:10	10/07/08 15:53	12674-11-2	
PCB-1221 (Aroclor 1221)	**<190**	ug/kg	500	190	10	09/29/08 10:10	10/07/08 15:53	11104-28-2	
PCB-1232 (Aroclor 1232)	**<190**	ug/kg	500	190	10	09/29/08 10:10	10/07/08 15:53	11141-16-5	
PCB-1242 (Aroclor 1242)	**<190**	ug/kg	500	190	10	09/29/08 10:10	10/07/08 15:53	53469-21-9	
PCB-1248 (Aroclor 1248)	**545**	ug/kg	500	190	10	09/29/08 10:10	10/07/08 15:53	12672-29-6	
PCB-1254 (Aroclor 1254)	**1520**	ug/kg	500	190	10	09/29/08 10:10	10/07/08 15:53	11097-69-1	
PCB-1260 (Aroclor 1260)	**300J**	ug/kg	500	190	10	09/29/08 10:10	10/07/08 15:53	11096-82-5	
PCB, Total	**2370**	ug/kg	500	190	10	09/29/08 10:10	10/07/08 15:53	1336-36-3	
Tetrachloro-m-xylene (S)	80	%	40-136		10	09/29/08 10:10	10/07/08 15:53	877-09-8	
Decachlorobiphenyl (S)	91	%	47-145		10	09/29/08 10:10	10/07/08 15:53	2051-24-3	
Lipid	Analytical Method: Pace Lipid								
Lipid	**0.17**	%		0.10	1		10/06/08 08:19		

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ANALYTICAL RESULTS

Project: SHEBOYGAN RIVER CB08-002
Pace Project No.: 408870

Sample: BL-MR2-AWS3-G, 9/8/08 **Lab ID: 408870006** Collected: 09/08/08 00:00 Received: 09/11/08 12:35 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCBs, Tissue	Analytical Method: EPA 8082 Preparation Method: EPA 3540								
PCB-1016 (Aroclor 1016)	**<190**	ug/kg	500	190	10	09/29/08 10:10	10/07/08 16:19	12674-11-2	
PCB-1221 (Aroclor 1221)	**<190**	ug/kg	500	190	10	09/29/08 10:10	10/07/08 16:19	11104-28-2	
PCB-1232 (Aroclor 1232)	**<190**	ug/kg	500	190	10	09/29/08 10:10	10/07/08 16:19	11141-16-5	
PCB-1242 (Aroclor 1242)	**<190**	ug/kg	500	190	10	09/29/08 10:10	10/07/08 16:19	53469-21-9	
PCB-1248 (Aroclor 1248)	**2000**	ug/kg	500	190	10	09/29/08 10:10	10/07/08 16:19	12672-29-6	
PCB-1254 (Aroclor 1254)	**1510**	ug/kg	500	190	10	09/29/08 10:10	10/07/08 16:19	11097-69-1	
PCB-1260 (Aroclor 1260)	**<190**	ug/kg	500	190	10	09/29/08 10:10	10/07/08 16:19	11096-82-5	
PCB, Total	**3510**	ug/kg	500	190	10	09/29/08 10:10	10/07/08 16:19	1336-36-3	
Tetrachloro-m-xylene (S)	79	%	40-136		10	09/29/08 10:10	10/07/08 16:19	877-09-8	
Decachlorobiphenyl (S)	93	%	47-145		10	09/29/08 10:10	10/07/08 16:19	2051-24-3	
Lipid	Analytical Method: Pace Lipid								
Lipid	**0.52**	%		0.10	1		10/06/08 08:19		

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ANALYTICAL RESULTS

Project: SHEBOYGAN RIVER CB08-002
Pace Project No.: 408870

Sample: BL-MR2-AWS4-G, 9/8/08 **Lab ID: 408870007** Collected: 09/08/08 00:00 Received: 09/11/08 12:35 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCBs, Tissue	Analytical Method: EPA 8082 Preparation Method: EPA 3540								
PCB-1016 (Aroclor 1016)	**<190**	ug/kg	500	190	10	09/29/08 10:10	10/07/08 16:44	12674-11-2	
PCB-1221 (Aroclor 1221)	**<190**	ug/kg	500	190	10	09/29/08 10:10	10/07/08 16:44	11104-28-2	
PCB-1232 (Aroclor 1232)	**<190**	ug/kg	500	190	10	09/29/08 10:10	10/07/08 16:44	11141-16-5	
PCB-1242 (Aroclor 1242)	**<190**	ug/kg	500	190	10	09/29/08 10:10	10/07/08 16:44	53469-21-9	
PCB-1248 (Aroclor 1248)	**1750**	ug/kg	500	190	10	09/29/08 10:10	10/07/08 16:44	12672-29-6	
PCB-1254 (Aroclor 1254)	**1540**	ug/kg	500	190	10	09/29/08 10:10	10/07/08 16:44	11097-69-1	
PCB-1260 (Aroclor 1260)	**191J**	ug/kg	500	190	10	09/29/08 10:10	10/07/08 16:44	11096-82-5	
PCB, Total	**3480**	ug/kg	500	190	10	09/29/08 10:10	10/07/08 16:44	1336-36-3	
Tetrachloro-m-xylene (S)	83	%	40-136		10	09/29/08 10:10	10/07/08 16:44	877-09-8	
Decachlorobiphenyl (S)	97	%	47-145		10	09/29/08 10:10	10/07/08 16:44	2051-24-3	
Lipid	Analytical Method: Pace Lipid								
Lipid	**0.72**	%		0.10	1		10/06/08 08:19		

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ANALYTICAL RESULTS

Project: SHEBOYGAN RIVER CB08-002
Pace Project No.: 408870

Sample: BL-MR2-AWS5-G, 9/8/08 **Lab ID: 408870008** Collected: 09/08/08 00:00 Received: 09/11/08 12:35 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCBs, Tissue	Analytical Method: EPA 8082 Preparation Method: EPA 3540								
PCB-1016 (Aroclor 1016)	**<57.0**	ug/kg	150	57.0	3	09/29/08 10:10	10/07/08 17:10	12674-11-2	
PCB-1221 (Aroclor 1221)	**<57.0**	ug/kg	150	57.0	3	09/29/08 10:10	10/07/08 17:10	11104-28-2	
PCB-1232 (Aroclor 1232)	**<57.0**	ug/kg	150	57.0	3	09/29/08 10:10	10/07/08 17:10	11141-16-5	
PCB-1242 (Aroclor 1242)	**<57.0**	ug/kg	150	57.0	3	09/29/08 10:10	10/07/08 17:10	53469-21-9	
PCB-1248 (Aroclor 1248)	**345**	ug/kg	150	57.0	3	09/29/08 10:10	10/07/08 17:10	12672-29-6	
PCB-1254 (Aroclor 1254)	**479**	ug/kg	150	57.0	3	09/29/08 10:10	10/07/08 17:10	11097-69-1	
PCB-1260 (Aroclor 1260)	**102J**	ug/kg	150	57.0	3	09/29/08 10:10	10/07/08 17:10	11096-82-5	
PCB, Total	**925**	ug/kg	150	57.0	3	09/29/08 10:10	10/07/08 17:10	1336-36-3	
Tetrachloro-m-xylene (S)	82	%	40-136		3	09/29/08 10:10	10/07/08 17:10	877-09-8	
Decachlorobiphenyl (S)	89	%	47-145		3	09/29/08 10:10	10/07/08 17:10	2051-24-3	
Lipid	Analytical Method: Pace Lipid								
Lipid	**0.15**	%		0.10	1		10/06/08 08:20		

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ANALYTICAL RESULTS

Project: SHEBOYGAN RIVER CB08-002
Pace Project No.: 408870

Sample: BL-MR2-AWS6-G, 9/8/08 **Lab ID: 408870009** Collected: 09/08/08 00:00 Received: 09/11/08 12:35 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCBs, Tissue	Analytical Method: EPA 8082 Preparation Method: EPA 3540								
PCB-1016 (Aroclor 1016)	**<380**	ug/kg	1000	380	20	09/29/08 10:10	10/07/08 17:36	12674-11-2	
PCB-1221 (Aroclor 1221)	**<380**	ug/kg	1000	380	20	09/29/08 10:10	10/07/08 17:36	11104-28-2	
PCB-1232 (Aroclor 1232)	**<380**	ug/kg	1000	380	20	09/29/08 10:10	10/07/08 17:36	11141-16-5	
PCB-1242 (Aroclor 1242)	**<380**	ug/kg	1000	380	20	09/29/08 10:10	10/07/08 17:36	53469-21-9	
PCB-1248 (Aroclor 1248)	**3650**	ug/kg	1000	380	20	09/29/08 10:10	10/07/08 17:36	12672-29-6	
PCB-1254 (Aroclor 1254)	**2710**	ug/kg	1000	380	20	09/29/08 10:10	10/07/08 17:36	11097-69-1	
PCB-1260 (Aroclor 1260)	**<380**	ug/kg	1000	380	20	09/29/08 10:10	10/07/08 17:36	11096-82-5	
PCB, Total	**6360**	ug/kg	1000	380	20	09/29/08 10:10	10/07/08 17:36	1336-36-3	
Tetrachloro-m-xylene (S)	0	%	40-136		20	09/29/08 10:10	10/07/08 17:36	877-09-8	S4
Decachlorobiphenyl (S)	0	%	47-145		20	09/29/08 10:10	10/07/08 17:36	2051-24-3	S4
Lipid	Analytical Method: Pace Lipid								
Lipid	**1.2**	%		0.10	1		10/06/08 08:20		

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ANALYTICAL RESULTS

Project: SHEBOYGAN RIVER CB08-002
Pace Project No.: 408870

Sample: BL-MR2-AWS7-G, 9/8/08 **Lab ID: 408870010** Collected: 09/08/08 00:00 Received: 09/11/08 12:35 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCBs, Tissue	Analytical Method: EPA 8082 Preparation Method: EPA 3540								
PCB-1016 (Aroclor 1016)	**<570**	ug/kg	1500	570	30	09/29/08 10:10	10/07/08 18:53	12674-11-2	
PCB-1221 (Aroclor 1221)	**<570**	ug/kg	1500	570	30	09/29/08 10:10	10/07/08 18:53	11104-28-2	
PCB-1232 (Aroclor 1232)	**<570**	ug/kg	1500	570	30	09/29/08 10:10	10/07/08 18:53	11141-16-5	
PCB-1242 (Aroclor 1242)	**<570**	ug/kg	1500	570	30	09/29/08 10:10	10/07/08 18:53	53469-21-9	
PCB-1248 (Aroclor 1248)	**3590**	ug/kg	1500	570	30	09/29/08 10:10	10/07/08 18:53	12672-29-6	
PCB-1254 (Aroclor 1254)	**3390**	ug/kg	1500	570	30	09/29/08 10:10	10/07/08 18:53	11097-69-1	
PCB-1260 (Aroclor 1260)	**<570**	ug/kg	1500	570	30	09/29/08 10:10	10/07/08 18:53	11096-82-5	
PCB, Total	**6980**	ug/kg	1500	570	30	09/29/08 10:10	10/07/08 18:53	1336-36-3	
Tetrachloro-m-xylene (S)	0	%	40-136		30	09/29/08 10:10	10/07/08 18:53	877-09-8	S4
Decachlorobiphenyl (S)	0	%	47-145		30	09/29/08 10:10	10/07/08 18:53	2051-24-3	S4
Lipid	Analytical Method: Pace Lipid								
Lipid	**0.58**	%		0.10	1		10/06/08 08:20		

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ANALYTICAL RESULTS

Project: SHEBOYGAN RIVER CB08-002
Pace Project No.: 408870

Sample: BL-MR2-AWS8-G, 9/8/08 **Lab ID: 408870011** Collected: 09/08/08 00:00 Received: 09/11/08 12:35 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCBs, Tissue	Analytical Method: EPA 8082 Preparation Method: EPA 3540								
PCB-1016 (Aroclor 1016)	**<380**	ug/kg	1000	380	20	09/29/08 10:10	10/07/08 19:19	12674-11-2	
PCB-1221 (Aroclor 1221)	**<380**	ug/kg	1000	380	20	09/29/08 10:10	10/07/08 19:19	11104-28-2	
PCB-1232 (Aroclor 1232)	**<380**	ug/kg	1000	380	20	09/29/08 10:10	10/07/08 19:19	11141-16-5	
PCB-1242 (Aroclor 1242)	**<380**	ug/kg	1000	380	20	09/29/08 10:10	10/07/08 19:19	53469-21-9	
PCB-1248 (Aroclor 1248)	**2890**	ug/kg	1000	380	20	09/29/08 10:10	10/07/08 19:19	12672-29-6	
PCB-1254 (Aroclor 1254)	**1940**	ug/kg	1000	380	20	09/29/08 10:10	10/07/08 19:19	11097-69-1	
PCB-1260 (Aroclor 1260)	**<380**	ug/kg	1000	380	20	09/29/08 10:10	10/07/08 19:19	11096-82-5	
PCB, Total	**4830**	ug/kg	1000	380	20	09/29/08 10:10	10/07/08 19:19	1336-36-3	
Tetrachloro-m-xylene (S)	0	%	40-136		20	09/29/08 10:10	10/07/08 19:19	877-09-8	S4
Decachlorobiphenyl (S)	0	%	47-145		20	09/29/08 10:10	10/07/08 19:19	2051-24-3	S4
Lipid	Analytical Method: Pace Lipid								
Lipid	**1.4**	%		0.10	1		10/06/08 08:20		

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ANALYTICAL RESULTS

Project: SHEBOYGAN RIVER CB08-002
Pace Project No.: 408870

Sample: BL-MR2-JWS1-G, 9/8/08 **Lab ID: 408870012** Collected: 09/08/08 00:00 Received: 09/11/08 12:35 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCBs, Tissue	Analytical Method: EPA 8082 Preparation Method: EPA 3540								
PCB-1016 (Aroclor 1016)	**<117**	ug/kg	308	117	2	10/07/08 14:28	10/10/08 00:14	12674-11-2	
PCB-1221 (Aroclor 1221)	**<117**	ug/kg	308	117	2	10/07/08 14:28	10/10/08 00:14	11104-28-2	
PCB-1232 (Aroclor 1232)	**<117**	ug/kg	308	117	2	10/07/08 14:28	10/10/08 00:14	11141-16-5	
PCB-1242 (Aroclor 1242)	**<117**	ug/kg	308	117	2	10/07/08 14:28	10/10/08 00:14	53469-21-9	
PCB-1248 (Aroclor 1248)	**996**	ug/kg	308	117	2	10/07/08 14:28	10/10/08 00:14	12672-29-6	
PCB-1254 (Aroclor 1254)	**1030**	ug/kg	308	117	2	10/07/08 14:28	10/10/08 00:14	11097-69-1	
PCB-1260 (Aroclor 1260)	**<117**	ug/kg	308	117	2	10/07/08 14:28	10/10/08 00:14	11096-82-5	
PCB, Total	**2030**	ug/kg	308	117	2	10/07/08 14:28	10/10/08 00:14	1336-36-3	
Tetrachloro-m-xylene (S)	92	%	40-136		2	10/07/08 14:28	10/10/08 00:14	877-09-8	
Decachlorobiphenyl (S)	100	%	47-145		2	10/07/08 14:28	10/10/08 00:14	2051-24-3	
Lipid	Analytical Method: Pace Lipid								
Lipid	**0.48**	%		0.10	1		10/20/08 14:33		

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ANALYTICAL RESULTS

Project: SHEBOYGAN RIVER CB08-002
Pace Project No.: 408870

Sample: BL-MR2-JWS2-G, 9/8/08 **Lab ID: 408870013** Collected: 09/08/08 00:00 Received: 09/11/08 12:35 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCBs, Tissue	Analytical Method: EPA 8082 Preparation Method: EPA 3540								
PCB-1016 (Aroclor 1016)	**<50.7**	ug/kg	133	50.7	2	09/29/08 10:10	10/07/08 19:45	12674-11-2	
PCB-1221 (Aroclor 1221)	**<50.7**	ug/kg	133	50.7	2	09/29/08 10:10	10/07/08 19:45	11104-28-2	
PCB-1232 (Aroclor 1232)	**<50.7**	ug/kg	133	50.7	2	09/29/08 10:10	10/07/08 19:45	11141-16-5	
PCB-1242 (Aroclor 1242)	**<50.7**	ug/kg	133	50.7	2	09/29/08 10:10	10/07/08 19:45	53469-21-9	
PCB-1248 (Aroclor 1248)	**657**	ug/kg	133	50.7	2	09/29/08 10:10	10/07/08 19:45	12672-29-6	
PCB-1254 (Aroclor 1254)	**542**	ug/kg	133	50.7	2	09/29/08 10:10	10/07/08 19:45	11097-69-1	
PCB-1260 (Aroclor 1260)	**<50.7**	ug/kg	133	50.7	2	09/29/08 10:10	10/07/08 19:45	11096-82-5	
PCB, Total	**1200**	ug/kg	133	50.7	2	09/29/08 10:10	10/07/08 19:45	1336-36-3	
Tetrachloro-m-xylene (S)	91	%	40-136		2	09/29/08 10:10	10/07/08 19:45	877-09-8	
Decachlorobiphenyl (S)	97	%	47-145		2	09/29/08 10:10	10/07/08 19:45	2051-24-3	
Lipid	Analytical Method: Pace Lipid								
Lipid	**0.40**	%		0.10	1		10/06/08 08:21		

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ANALYTICAL RESULTS

Project: SHEBOYGAN RIVER CB08-002
Pace Project No.: 408870

Sample: BL-MR2-RB1-G, 9/8/08 **Lab ID: 408870014** Collected: 09/08/08 00:00 Received: 09/11/08 12:35 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCBs, Tissue	Analytical Method: EPA 8082 Preparation Method: EPA 3540								
PCB-1016 (Aroclor 1016)	**<101**	ug/kg	267	101	4	09/29/08 10:10	10/07/08 20:11	12674-11-2	
PCB-1221 (Aroclor 1221)	**<101**	ug/kg	267	101	4	09/29/08 10:10	10/07/08 20:11	11104-28-2	
PCB-1232 (Aroclor 1232)	**<101**	ug/kg	267	101	4	09/29/08 10:10	10/07/08 20:11	11141-16-5	
PCB-1242 (Aroclor 1242)	**<101**	ug/kg	267	101	4	09/29/08 10:10	10/07/08 20:11	53469-21-9	
PCB-1248 (Aroclor 1248)	**740**	ug/kg	267	101	4	09/29/08 10:10	10/07/08 20:11	12672-29-6	
PCB-1254 (Aroclor 1254)	**679**	ug/kg	267	101	4	09/29/08 10:10	10/07/08 20:11	11097-69-1	
PCB-1260 (Aroclor 1260)	**<101**	ug/kg	267	101	4	09/29/08 10:10	10/07/08 20:11	11096-82-5	
PCB, Total	**1420**	ug/kg	267	101	4	09/29/08 10:10	10/07/08 20:11	1336-36-3	
Tetrachloro-m-xylene (S)	79	%	40-136		4	09/29/08 10:10	10/07/08 20:11	877-09-8	
Decachlorobiphenyl (S)	88	%	47-145		4	09/29/08 10:10	10/07/08 20:11	2051-24-3	
Lipid	Analytical Method: Pace Lipid								
Lipid	**0.48**	%		0.10	1		10/06/08 08:21		

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ANALYTICAL RESULTS

Project: SHEBOYGAN RIVER CB08-002
Pace Project No.: 408870

Sample: BL-MR2-RB2-G, 9/8/08 **Lab ID: 408870015** Collected: 09/08/08 00:00 Received: 09/11/08 12:35 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCBs, Tissue	Analytical Method: EPA 8082 Preparation Method: EPA 3540								
PCB-1016 (Aroclor 1016)	**<101**	ug/kg	267	101	4	09/29/08 10:10	10/07/08 20:37	12674-11-2	
PCB-1221 (Aroclor 1221)	**<101**	ug/kg	267	101	4	09/29/08 10:10	10/07/08 20:37	11104-28-2	
PCB-1232 (Aroclor 1232)	**<101**	ug/kg	267	101	4	09/29/08 10:10	10/07/08 20:37	11141-16-5	
PCB-1242 (Aroclor 1242)	**<101**	ug/kg	267	101	4	09/29/08 10:10	10/07/08 20:37	53469-21-9	
PCB-1248 (Aroclor 1248)	**1140**	ug/kg	267	101	4	09/29/08 10:10	10/07/08 20:37	12672-29-6	
PCB-1254 (Aroclor 1254)	**956**	ug/kg	267	101	4	09/29/08 10:10	10/07/08 20:37	11097-69-1	
PCB-1260 (Aroclor 1260)	**<101**	ug/kg	267	101	4	09/29/08 10:10	10/07/08 20:37	11096-82-5	
PCB, Total	**2090**	ug/kg	267	101	4	09/29/08 10:10	10/07/08 20:37	1336-36-3	
Tetrachloro-m-xylene (S)	84	%	40-136		4	09/29/08 10:10	10/07/08 20:37	877-09-8	
Decachlorobiphenyl (S)	92	%	47-145		4	09/29/08 10:10	10/07/08 20:37	2051-24-3	
Lipid	Analytical Method: Pace Lipid								
Lipid	**0.59**	%		0.10	1		10/06/08 08:21		

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ANALYTICAL RESULTS

Project: SHEBOYGAN RIVER CB08-002
Pace Project No.: 408870

Sample: BL-MR2-CC1-G, 9/8/08 **Lab ID: 408870016** Collected: 09/08/08 00:00 Received: 09/11/08 12:35 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCBs, Tissue	Analytical Method: EPA 8082 Preparation Method: EPA 3540								
PCB-1016 (Aroclor 1016)	**<570**	ug/kg	1500	570	30	09/29/08 10:10	10/07/08 21:02	12674-11-2	
PCB-1221 (Aroclor 1221)	**<570**	ug/kg	1500	570	30	09/29/08 10:10	10/07/08 21:02	11104-28-2	
PCB-1232 (Aroclor 1232)	**<570**	ug/kg	1500	570	30	09/29/08 10:10	10/07/08 21:02	11141-16-5	
PCB-1242 (Aroclor 1242)	**<570**	ug/kg	1500	570	30	09/29/08 10:10	10/07/08 21:02	53469-21-9	
PCB-1248 (Aroclor 1248)	**3920**	ug/kg	1500	570	30	09/29/08 10:10	10/07/08 21:02	12672-29-6	
PCB-1254 (Aroclor 1254)	**2990**	ug/kg	1500	570	30	09/29/08 10:10	10/07/08 21:02	11097-69-1	
PCB-1260 (Aroclor 1260)	**<570**	ug/kg	1500	570	30	09/29/08 10:10	10/07/08 21:02	11096-82-5	
PCB, Total	**6900**	ug/kg	1500	570	30	09/29/08 10:10	10/07/08 21:02	1336-36-3	
Tetrachloro-m-xylene (S)	0	%	40-136		30	09/29/08 10:10	10/07/08 21:02	877-09-8	S4
Decachlorobiphenyl (S)	0	%	47-145		30	09/29/08 10:10	10/07/08 21:02	2051-24-3	S4
Lipid	Analytical Method: Pace Lipid								
Lipid	**4.2**	%		0.10	1		10/06/08 08:21		

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ANALYTICAL RESULTS

Project: SHEBOYGAN RIVER CB08-002
Pace Project No.: 408870

Sample: BL-MR2-LD1-G, 9/10/08 **Lab ID: 408870017** Collected: 09/10/08 00:00 Received: 09/11/08 12:35 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCBs, Tissue	Analytical Method: EPA 8082 Preparation Method: EPA 3540								
PCB-1016 (Aroclor 1016)	**<345**	ug/kg	909	345	4	09/29/08 10:10	10/07/08 21:28	12674-11-2	
PCB-1221 (Aroclor 1221)	**<345**	ug/kg	909	345	4	09/29/08 10:10	10/07/08 21:28	11104-28-2	
PCB-1232 (Aroclor 1232)	**<345**	ug/kg	909	345	4	09/29/08 10:10	10/07/08 21:28	11141-16-5	
PCB-1242 (Aroclor 1242)	**<345**	ug/kg	909	345	4	09/29/08 10:10	10/07/08 21:28	53469-21-9	
PCB-1248 (Aroclor 1248)	**3410**	ug/kg	909	345	4	09/29/08 10:10	10/07/08 21:28	12672-29-6	
PCB-1254 (Aroclor 1254)	**2790**	ug/kg	909	345	4	09/29/08 10:10	10/07/08 21:28	11097-69-1	
PCB-1260 (Aroclor 1260)	**<345**	ug/kg	909	345	4	09/29/08 10:10	10/07/08 21:28	11096-82-5	
PCB, Total	**6200**	ug/kg	909	345	4	09/29/08 10:10	10/07/08 21:28	1336-36-3	
Tetrachloro-m-xylene (S)	81	%	40-136		4	09/29/08 10:10	10/07/08 21:28	877-09-8	
Decachlorobiphenyl (S)	91	%	47-145		4	09/29/08 10:10	10/07/08 21:28	2051-24-3	
Lipid	Analytical Method: Pace Lipid								
Lipid	**2.8**	%		0.10	1		10/06/08 08:22		

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ANALYTICAL RESULTS

Project: SHEBOYGAN RIVER CB08-002
Pace Project No.: 408870

Sample: BL-MR2-LD2-G, 9/10/08 **Lab ID: 408870018** Collected: 09/10/08 00:00 Received: 09/11/08 12:35 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCBs, Tissue	Analytical Method: EPA 8082 Preparation Method: EPA 3540								
PCB-1016 (Aroclor 1016)	**<760**	ug/kg	2000	760	10	09/29/08 10:10	10/07/08 21:54	12674-11-2	
PCB-1221 (Aroclor 1221)	**<760**	ug/kg	2000	760	10	09/29/08 10:10	10/07/08 21:54	11104-28-2	
PCB-1232 (Aroclor 1232)	**<760**	ug/kg	2000	760	10	09/29/08 10:10	10/07/08 21:54	11141-16-5	
PCB-1242 (Aroclor 1242)	**<760**	ug/kg	2000	760	10	09/29/08 10:10	10/07/08 21:54	53469-21-9	
PCB-1248 (Aroclor 1248)	**5180**	ug/kg	2000	760	10	09/29/08 10:10	10/07/08 21:54	12672-29-6	
PCB-1254 (Aroclor 1254)	**4420**	ug/kg	2000	760	10	09/29/08 10:10	10/07/08 21:54	11097-69-1	
PCB-1260 (Aroclor 1260)	**<760**	ug/kg	2000	760	10	09/29/08 10:10	10/07/08 21:54	11096-82-5	
PCB, Total	**9600**	ug/kg	2000	760	10	09/29/08 10:10	10/07/08 21:54	1336-36-3	
Tetrachloro-m-xylene (S)	82	%	40-136		10	09/29/08 10:10	10/07/08 21:54	877-09-8	
Decachlorobiphenyl (S)	97	%	47-145		10	09/29/08 10:10	10/07/08 21:54	2051-24-3	
Lipid	Analytical Method: Pace Lipid								
Lipid	**5.0**	%		0.10	1		10/06/08 08:22		

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ANALYTICAL RESULTS

Project: SHEBOYGAN RIVER CB08-002
Pace Project No.: 408870

Sample: BL-MR2-LD3-G, 9/10/08 **Lab ID: 408870019** Collected: 09/10/08 00:00 Received: 09/11/08 12:35 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCBs, Tissue	Analytical Method: EPA 8082 Preparation Method: EPA 3540								
PCB-1016 (Aroclor 1016)	**<760**	ug/kg	2000	760	10	09/29/08 10:10	10/07/08 22:20	12674-11-2	
PCB-1221 (Aroclor 1221)	**<760**	ug/kg	2000	760	10	09/29/08 10:10	10/07/08 22:20	11104-28-2	
PCB-1232 (Aroclor 1232)	**<760**	ug/kg	2000	760	10	09/29/08 10:10	10/07/08 22:20	11141-16-5	
PCB-1242 (Aroclor 1242)	**<760**	ug/kg	2000	760	10	09/29/08 10:10	10/07/08 22:20	53469-21-9	
PCB-1248 (Aroclor 1248)	**6380**	ug/kg	2000	760	10	09/29/08 10:10	10/07/08 22:20	12672-29-6	
PCB-1254 (Aroclor 1254)	**4490**	ug/kg	2000	760	10	09/29/08 10:10	10/07/08 22:20	11097-69-1	
PCB-1260 (Aroclor 1260)	**<760**	ug/kg	2000	760	10	09/29/08 10:10	10/07/08 22:20	11096-82-5	
PCB, Total	**10900**	ug/kg	2000	760	10	09/29/08 10:10	10/07/08 22:20	1336-36-3	
Tetrachloro-m-xylene (S)	84	%	40-136		10	09/29/08 10:10	10/07/08 22:20	877-09-8	
Decachlorobiphenyl (S)	97	%	47-145		10	09/29/08 10:10	10/07/08 22:20	2051-24-3	
Lipid	Analytical Method: Pace Lipid								
Lipid	**6.1**	%		0.10	1		10/06/08 08:22		

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1241 Bellevue Street
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: SHEBOYGAN RIVER CB08-002
Pace Project No.: 408870

Sample: BL-MR2-LD4-G, 9/10/08 **Lab ID: 408870020** Collected: 09/10/08 00:00 Received: 09/11/08 12:35 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCBs, Tissue	Analytical Method: EPA 8082 Preparation Method: EPA 3540								
PCB-1016 (Aroclor 1016)	**<760**	ug/kg	2000	760	10	09/29/08 10:10	10/07/08 22:45	12674-11-2	
PCB-1221 (Aroclor 1221)	**<760**	ug/kg	2000	760	10	09/29/08 10:10	10/07/08 22:45	11104-28-2	
PCB-1232 (Aroclor 1232)	**<760**	ug/kg	2000	760	10	09/29/08 10:10	10/07/08 22:45	11141-16-5	
PCB-1242 (Aroclor 1242)	**<760**	ug/kg	2000	760	10	09/29/08 10:10	10/07/08 22:45	53469-21-9	
PCB-1248 (Aroclor 1248)	**6650**	ug/kg	2000	760	10	09/29/08 10:10	10/07/08 22:45	12672-29-6	
PCB-1254 (Aroclor 1254)	**4370**	ug/kg	2000	760	10	09/29/08 10:10	10/07/08 22:45	11097-69-1	
PCB-1260 (Aroclor 1260)	**<760**	ug/kg	2000	760	10	09/29/08 10:10	10/07/08 22:45	11096-82-5	
PCB, Total	**11000**	ug/kg	2000	760	10	09/29/08 10:10	10/07/08 22:45	1336-36-3	
Tetrachloro-m-xylene (S)	82	%	40-136		10	09/29/08 10:10	10/07/08 22:45	877-09-8	
Decachlorobiphenyl (S)	94	%	47-145		10	09/29/08 10:10	10/07/08 22:45	2051-24-3	
Lipid	Analytical Method: Pace Lipid								
Lipid	**5.5**	%		0.10	1		10/06/08 08:22		

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QUALITY CONTROL DATA

Project: SHEBOYGAN RIVER CB08-002
Pace Project No.: 408870

QC Batch: OEXT/2796 Analysis Method: EPA 8082
QC Batch Method: EPA 3540 Analysis Description: 8082 GCS Tissue Pesticides
Associated Lab Samples: 408870001, 408870003, 408870004, 408870005, 408870006, 408870007, 408870008, 408870009, 408870010, 408870011, 408870013, 408870014, 408870015, 408870016, 408870017, 408870018, 408870019, 408870020

METHOD BLANK: 82237 Matrix: Tissue
Associated Lab Samples: 408870001, 408870003, 408870004, 408870005, 408870006, 408870007, 408870008, 408870009, 408870010, 408870011, 408870013, 408870014, 408870015, 408870016, 408870017, 408870018, 408870019, 408870020

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg	<19.0	50.0	10/07/08 12:52	
PCB-1221 (Aroclor 1221)	ug/kg	<19.0	50.0	10/07/08 12:52	
PCB-1232 (Aroclor 1232)	ug/kg	<19.0	50.0	10/07/08 12:52	
PCB-1242 (Aroclor 1242)	ug/kg	<19.0	50.0	10/07/08 12:52	
PCB-1248 (Aroclor 1248)	ug/kg	<19.0	50.0	10/07/08 12:52	
PCB-1254 (Aroclor 1254)	ug/kg	<19.0	50.0	10/07/08 12:52	
PCB-1260 (Aroclor 1260)	ug/kg	<19.0	50.0	10/07/08 12:52	
Decachlorobiphenyl (S)	%	91	47-145	10/07/08 12:52	
Tetrachloro-m-xylene (S)	%	85	40-136	10/07/08 12:52	

LABORATORY CONTROL SAMPLE: 82238

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg		<19.0			
PCB-1221 (Aroclor 1221)	ug/kg		<19.0			
PCB-1232 (Aroclor 1232)	ug/kg		<19.0			
PCB-1242 (Aroclor 1242)	ug/kg	250	232	93	40-128	
PCB-1248 (Aroclor 1248)	ug/kg		<19.0			
PCB-1254 (Aroclor 1254)	ug/kg		<19.0			
PCB-1260 (Aroclor 1260)	ug/kg		<19.0			
Decachlorobiphenyl (S)	%			88	47-145	
Tetrachloro-m-xylene (S)	%			84	40-136	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 82239 82240

Parameter	Units	408870001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
PCB-1016 (Aroclor 1016)	ug/kg	<190			<190	<190					56	
PCB-1221 (Aroclor 1221)	ug/kg	<190			<190	<190					56	
PCB-1232 (Aroclor 1232)	ug/kg	<190			<190	<190					56	
PCB-1242 (Aroclor 1242)	ug/kg	<190	1000	1000	<190	<190	0	0	43-130		56	M0
PCB-1248 (Aroclor 1248)	ug/kg	1640			2420	2550				5	56	
PCB-1254 (Aroclor 1254)	ug/kg	1440			1390	1500				8	56	
PCB-1260 (Aroclor 1260)	ug/kg	<190			<190	<190					56	
Decachlorobiphenyl (S)	%						91	91	47-145			
Tetrachloro-m-xylene (S)	%						83	83	40-136			

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QUALITY CONTROL DATA

Project: SHEBOYGAN RIVER CB08-002
Pace Project No.: 408870

QC Batch: OEXT/2809 Analysis Method: Pace Lipid
QC Batch Method: Pace Lipid Analysis Description: LIPID
Associated Lab Samples: 408870001, 408870003, 408870004, 408870005, 408870006, 408870007, 408870008, 408870009, 408870010, 408870011, 408870013, 408870014, 408870015, 408870016, 408870017, 408870018, 408870019, 408870020

METHOD BLANK: 82614 Matrix: Tissue
Associated Lab Samples: 408870001, 408870003, 408870004, 408870005, 408870006, 408870007, 408870008, 408870009, 408870010, 408870011, 408870013, 408870014, 408870015, 408870016, 408870017, 408870018, 408870019, 408870020

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lipid	%	<0.10		10/06/08 08:17	

SAMPLE DUPLICATE: 82615

Parameter	Units	408870001 Result	Dup Result	RPD	Max RPD	Qualifiers
Lipid	%	1.1	1.0	4	20	

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QUALITY CONTROL DATA

Project: SHEBOYGAN RIVER CB08-002
Pace Project No.: 408870

QC Batch: OEXT/2884 Analysis Method: EPA 8082
QC Batch Method: EPA 3540 Analysis Description: 8082 GCS Tissue Pesticides
Associated Lab Samples: 408870002, 408870012

METHOD BLANK: 86008 Matrix: Tissue
Associated Lab Samples: 408870002, 408870012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg	<19.0	50.0	10/09/08 21:26	
PCB-1221 (Aroclor 1221)	ug/kg	<19.0	50.0	10/09/08 21:26	
PCB-1232 (Aroclor 1232)	ug/kg	<19.0	50.0	10/09/08 21:26	
PCB-1242 (Aroclor 1242)	ug/kg	<19.0	50.0	10/09/08 21:26	
PCB-1248 (Aroclor 1248)	ug/kg	<19.0	50.0	10/09/08 21:26	
PCB-1254 (Aroclor 1254)	ug/kg	<19.0	50.0	10/09/08 21:26	
PCB-1260 (Aroclor 1260)	ug/kg	<19.0	50.0	10/09/08 21:26	
Decachlorobiphenyl (S)	%	89	47-145	10/09/08 21:26	
Tetrachloro-m-xylene (S)	%	100	40-136	10/09/08 21:26	

LABORATORY CONTROL SAMPLE & LCSD: 86009 86010

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg		<19.0	<19.0					40	
PCB-1221 (Aroclor 1221)	ug/kg		<19.0	<19.0					40	
PCB-1232 (Aroclor 1232)	ug/kg		<19.0	<19.0					40	
PCB-1242 (Aroclor 1242)	ug/kg		<19.0	<19.0					40	
PCB-1248 (Aroclor 1248)	ug/kg		<19.0	<19.0					40	
PCB-1254 (Aroclor 1254)	ug/kg	250	215	226	86	91	40-128	5	40	
PCB-1260 (Aroclor 1260)	ug/kg		<19.0	<19.0					40	
Decachlorobiphenyl (S)	%				94	96	47-145			
Tetrachloro-m-xylene (S)	%				101	99	40-136			

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QUALITY CONTROL DATA

Project: SHEBOYGAN RIVER CB08-002
Pace Project No.: 408870

QC Batch: OEXT/2895
QC Batch Method: Pace Lipid
Analysis Method: Pace Lipid
Analysis Description: LIPID
Associated Lab Samples: 408870002, 408870012

METHOD BLANK: 86574
Matrix: Tissue
Associated Lab Samples: 408870002, 408870012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lipid	%	<0.10		10/20/08 14:33	

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: SHEBOYGAN RIVER CB08-002
Pace Project No.: 408870

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

Pace Analytical is NELAP accredited. Contact your Pace PM for the current list of accredited analytes.

BATCH QUALIFIERS

Batch: GCSV/2002

[1] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

ANALYTE QUALIFIERS

M0 Matrix spike recovery was outside laboratory control limits.

S4 Surrogate recovery not evaluated against control limits due to sample dilution.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: SHEBOYGAN RIVER CB08-002
Pace Project No.: 408870

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
408870001	BL-MR2-SB6-G, 9/8/08	EPA 3540	OEXT/2796	EPA 8082	GCSV/1961
408870003	BL-MR2-SB8-G, 9/8/08	EPA 3540	OEXT/2796	EPA 8082	GCSV/1961
408870004	BL-MR2-AWS1-G, 9/8/08	EPA 3540	OEXT/2796	EPA 8082	GCSV/1961
408870005	BL-MR2-AWS2-G, 9/8/08	EPA 3540	OEXT/2796	EPA 8082	GCSV/1961
408870006	BL-MR2-AWS3-G, 9/8/08	EPA 3540	OEXT/2796	EPA 8082	GCSV/1961
408870007	BL-MR2-AWS4-G, 9/8/08	EPA 3540	OEXT/2796	EPA 8082	GCSV/1961
408870008	BL-MR2-AWS5-G, 9/8/08	EPA 3540	OEXT/2796	EPA 8082	GCSV/1961
408870009	BL-MR2-AWS6-G, 9/8/08	EPA 3540	OEXT/2796	EPA 8082	GCSV/1961
408870010	BL-MR2-AWS7-G, 9/8/08	EPA 3540	OEXT/2796	EPA 8082	GCSV/1961
408870011	BL-MR2-AWS8-G, 9/8/08	EPA 3540	OEXT/2796	EPA 8082	GCSV/1961
408870013	BL-MR2-JWS2-G, 9/8/08	EPA 3540	OEXT/2796	EPA 8082	GCSV/1961
408870014	BL-MR2-RB1-G, 9/8/08	EPA 3540	OEXT/2796	EPA 8082	GCSV/1961
408870015	BL-MR2-RB2-G, 9/8/08	EPA 3540	OEXT/2796	EPA 8082	GCSV/1961
408870016	BL-MR2-CC1-G, 9/8/08	EPA 3540	OEXT/2796	EPA 8082	GCSV/1961
408870017	BL-MR2-LD1-G, 9/10/08	EPA 3540	OEXT/2796	EPA 8082	GCSV/1961
408870018	BL-MR2-LD2-G, 9/10/08	EPA 3540	OEXT/2796	EPA 8082	GCSV/1961
408870019	BL-MR2-LD3-G, 9/10/08	EPA 3540	OEXT/2796	EPA 8082	GCSV/1961
408870020	BL-MR2-LD4-G, 9/10/08	EPA 3540	OEXT/2796	EPA 8082	GCSV/1961
408870001	BL-MR2-SB6-G, 9/8/08	Pace Lipid	OEXT/2809		
408870003	BL-MR2-SB8-G, 9/8/08	Pace Lipid	OEXT/2809		
408870004	BL-MR2-AWS1-G, 9/8/08	Pace Lipid	OEXT/2809		
408870005	BL-MR2-AWS2-G, 9/8/08	Pace Lipid	OEXT/2809		
408870006	BL-MR2-AWS3-G, 9/8/08	Pace Lipid	OEXT/2809		
408870007	BL-MR2-AWS4-G, 9/8/08	Pace Lipid	OEXT/2809		
408870008	BL-MR2-AWS5-G, 9/8/08	Pace Lipid	OEXT/2809		
408870009	BL-MR2-AWS6-G, 9/8/08	Pace Lipid	OEXT/2809		
408870010	BL-MR2-AWS7-G, 9/8/08	Pace Lipid	OEXT/2809		
408870011	BL-MR2-AWS8-G, 9/8/08	Pace Lipid	OEXT/2809		
408870013	BL-MR2-JWS2-G, 9/8/08	Pace Lipid	OEXT/2809		
408870014	BL-MR2-RB1-G, 9/8/08	Pace Lipid	OEXT/2809		
408870015	BL-MR2-RB2-G, 9/8/08	Pace Lipid	OEXT/2809		
408870016	BL-MR2-CC1-G, 9/8/08	Pace Lipid	OEXT/2809		
408870017	BL-MR2-LD1-G, 9/10/08	Pace Lipid	OEXT/2809		
408870018	BL-MR2-LD2-G, 9/10/08	Pace Lipid	OEXT/2809		
408870019	BL-MR2-LD3-G, 9/10/08	Pace Lipid	OEXT/2809		
408870020	BL-MR2-LD4-G, 9/10/08	Pace Lipid	OEXT/2809		
408870002	BL-MR2-SB7-G, 9/8/08	EPA 3540	OEXT/2884	EPA 8082	GCSV/2002
408870012	BL-MR2-JWS1-G, 9/8/08	EPA 3540	OEXT/2884	EPA 8082	GCSV/2002
408870002	BL-MR2-SB7-G, 9/8/08	Pace Lipid	OEXT/2895		
408870012	BL-MR2-JWS1-G, 9/8/08	Pace Lipid	OEXT/2895		

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October 15, 2008

BRANDY PROFFITT
POLLUTION RISK SERVICES
7870 EAST KEMPER ROAD
SUITE 240
Cincinnati, OH 45249

RE: Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 408719

Dear BRANDY PROFFITT:
Enclosed are the analytical results for sample(s) received by the laboratory on September 09, 2008. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Tod Noltemeyer

Tod Noltemeyer

tod.noltemeyer@pacelabs.com
Project Manager

Enclosures

REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 408719

Green Bay Certification IDs

Louisiana Certification #: 04169
Louisiana Certification #: 04168
Kentucky Certification #: 83
Kentucky Certification #: 82
Wisconsin DATCP Certification #: 105-444
Wisconsin DATCP Certification #: 105-444
Wisconsin Certification #: 405132750
Wisconsin Certification #: 405132750
South Carolina Certification #: 83006001
South Carolina Certification #: 83006001
Minnesota Certification #: 055-999-334
Minnesota Certification #: 055-999-334
North Carolina Certification #: 503
North Carolina Certification #: 503
North Dakota Certification #: R-200
North Dakota Certification #: R-150
New York Certification #: 11888
New York Certification #: 11887
Illinois Certification #: 200051
Illinois Certification #: 200050
Florida (NELAP) Certification #: E87951
Florida (NELAP) Certification #: E87948

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SAMPLE SUMMARY

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 408719

Lab ID	Sample ID	Matrix	Date Collected	Date Received
408719001	BL-IH-W2-G, 9/5/08	Tissue	09/05/08 00:00	09/09/08 13:30
408719002	BL-IH-W3-G, 9/5/08	Tissue	09/05/08 00:00	09/09/08 13:30
408719003	BL-UR1-AC5-G, 9/6/08	Tissue	09/06/08 00:00	09/09/08 13:30
408719004	BL-UR1-AC6-G, 9/6/08	Tissue	09/06/08 00:00	09/09/08 13:30
408719005	BL-UR1-AC7-G, 9/6/08	Tissue	09/06/08 00:00	09/09/08 13:30
408719006	BL-UR1-AC8-G, 9/6/08	Tissue	09/06/08 00:00	09/09/08 13:30
408719007	BL-UR1-AC9-G, 9/6/08	Tissue	09/06/08 00:00	09/09/08 13:30
408719008	BL-UR1-AC10-G, 9/6/08	Tissue	09/06/08 00:00	09/09/08 13:30
408719009	BL-UR1-AC11-G, 9/6/08	Tissue	09/06/08 00:00	09/09/08 13:30
408719010	BL-UR1-AC12-G, 9/6/08	Tissue	09/06/08 00:00	09/09/08 13:30
408719011	BL-UR1-AC13-G, 9/6/08	Tissue	09/06/08 00:00	09/09/08 13:30
408719012	BL-UR1-AC14-G, 9/6/08	Tissue	09/06/08 00:00	09/09/08 13:30
408719013	BL-UR1-AC15-G, 9/6/08	Tissue	09/06/08 00:00	09/09/08 13:30
408719014	BL-UR1-AC16-G, 9/6/08	Tissue	09/06/08 00:00	09/09/08 13:30
408719015	BL-UR1-AWS5-G, 9/6/08	Tissue	09/06/08 00:00	09/09/08 13:30
408719016	BL-UR1-AWS6-G, 9/6/08	Tissue	09/06/08 00:00	09/09/08 13:30
408719017	BL-UR1-AWS7-G, 9/6/08	Tissue	09/06/08 00:00	09/09/08 13:30
408719018	BL-UR1-AWS8-G, 9/6/08	Tissue	09/06/08 00:00	09/09/08 13:30
408719019	BL-UR2-AC5-G, 9/6/08	Tissue	09/06/08 00:00	09/09/08 13:30
408719020	BL-UR2-AC6-G, 9/6/08	Tissue	09/06/08 00:00	09/09/08 13:30

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SAMPLE ANALYTE COUNT

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 408719

Lab ID	Sample ID	Method	Analysts	Analytes Reported
408719001	**BL-IH-W2-G, 9/5/08**	EPA 8082	BDS	10
		Pace Lipid	KPH	1
408719002	**BL-IH-W3-G, 9/5/08**	EPA 8082	BDS	10
		Pace Lipid	KPH	1
408719003	**BL-UR1-AC5-G, 9/6/08**	EPA 8082	BDS	10
		Pace Lipid	KPH	1
408719004	**BL-UR1-AC6-G, 9/6/08**	EPA 8082	BDS	10
		Pace Lipid	KPH	1
408719005	**BL-UR1-AC7-G, 9/6/08**	EPA 8082	BDS	10
		Pace Lipid	KPH	1
408719006	**BL-UR1-AC8-G, 9/6/08**	EPA 8082	BDS	10
		Pace Lipid	KPH	1
408719007	**BL-UR1-AC9-G, 9/6/08**	EPA 8082	BDS	10
		Pace Lipid	KPH	1
408719008	**BL-UR1-AC10-G, 9/6/08**	EPA 8082	BDS	10
		Pace Lipid	KPH	1
408719009	**BL-UR1-AC11-G, 9/6/08**	EPA 8082	BDS	10
		Pace Lipid	KPH	1
408719010	**BL-UR1-AC12-G, 9/6/08**	EPA 8082	BDS	10
		Pace Lipid	KPH	1
408719011	**BL-UR1-AC13-G, 9/6/08**	EPA 8082	BDS	10
		Pace Lipid	KPH	1
408719012	**BL-UR1-AC14-G, 9/6/08**	EPA 8082	BDS	10
		Pace Lipid	KPH	1
408719013	**BL-UR1-AC15-G, 9/6/08**	EPA 8082	BDS	10
		Pace Lipid	KPH	1
408719014	**BL-UR1-AC16-G, 9/6/08**	EPA 8082	BDS	10
		Pace Lipid	KPH	1
408719015	**BL-UR1-AWS5-G, 9/6/08**	EPA 8082	BDS	10
		Pace Lipid	KPH	1
408719016	**BL-UR1-AWS6-G, 9/6/08**	EPA 8082	BDS	10
		Pace Lipid	KPH	1
408719017	**BL-UR1-AWS7-G, 9/6/08**	EPA 8082	BDS	10
		Pace Lipid	KPH	1
408719018	**BL-UR1-AWS8-G, 9/6/08**	EPA 8082	BDS	10
		Pace Lipid	KPH	1
408719019	**BL-UR2-AC5-G, 9/6/08**	EPA 8082	BDS	10

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SAMPLE ANALYTE COUNT

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 408719

Lab ID	Sample ID	Method	Analysts	Analytes Reported
		Pace Lipid	KPH	1
408719020	**BL-UR2-AC6-G, 9/6/08**	EPA 8082	BDS	10
		Pace Lipid	KPH	1

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PROJECT NARRATIVE

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 408719

Method: **EPA 8082**
Description: 8082 GCS PCBs, Tissue
Client: POLLUTION RISK SERVICES
Date: October 15, 2008

General Information:
20 samples were analyzed for EPA 8082. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 3540 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

QC Batch: OEXT/2766

S4: Surrogate recovery not evaluated against control limits due to sample dilution.

- BL-UR1-AC10-G, 9/6/08 (Lab ID: 408719008)
  - Decachlorobiphenyl (S)
  - Tetrachloro-m-xylene (S)
- BL-UR1-AC11-G, 9/6/08 (Lab ID: 408719009)
  - Decachlorobiphenyl (S)
  - Tetrachloro-m-xylene (S)
- BL-UR1-AC12-G, 9/6/08 (Lab ID: 408719010)
  - Decachlorobiphenyl (S)
  - Tetrachloro-m-xylene (S)
- BL-UR1-AC13-G, 9/6/08 (Lab ID: 408719011)
  - Decachlorobiphenyl (S)
  - Tetrachloro-m-xylene (S)
- BL-UR1-AC14-G, 9/6/08 (Lab ID: 408719012)
  - Decachlorobiphenyl (S)
  - Tetrachloro-m-xylene (S)
- BL-UR1-AC15-G, 9/6/08 (Lab ID: 408719013)
  - Decachlorobiphenyl (S)
  - Tetrachloro-m-xylene (S)
- BL-UR1-AC16-G, 9/6/08 (Lab ID: 408719014)
  - Decachlorobiphenyl (S)
  - Tetrachloro-m-xylene (S)
- BL-UR1-AC5-G, 9/6/08 (Lab ID: 408719003)
  - Decachlorobiphenyl (S)
  - Tetrachloro-m-xylene (S)
- BL-UR1-AC6-G, 9/6/08 (Lab ID: 408719004)

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PROJECT NARRATIVE

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 408719

Method: **EPA 8082**
Description: 8082 GCS PCBs, Tissue
Client: POLLUTION RISK SERVICES
Date: October 15, 2008

QC Batch: OEXT/2766

S4: Surrogate recovery not evaluated against control limits due to sample dilution.

- Decachlorobiphenyl (S)
- Tetrachloro-m-xylene (S)
- BL-UR1-AC7-G, 9/6/08 (Lab ID: 408719005)
  - Decachlorobiphenyl (S)
  - Tetrachloro-m-xylene (S)
- BL-UR1-AC9-G, 9/6/08 (Lab ID: 408719007)
  - Decachlorobiphenyl (S)
  - Tetrachloro-m-xylene (S)
- BL-UR1-AWS5-G, 9/6/08 (Lab ID: 408719015)
  - Decachlorobiphenyl (S)
  - Tetrachloro-m-xylene (S)
- BL-UR1-AWS6-G, 9/6/08 (Lab ID: 408719016)
  - Decachlorobiphenyl (S)
  - Tetrachloro-m-xylene (S)
- BL-UR1-AWS7-G, 9/6/08 (Lab ID: 408719017)
  - Decachlorobiphenyl (S)
  - Tetrachloro-m-xylene (S)
- BL-UR1-AWS8-G, 9/6/08 (Lab ID: 408719018)
  - Decachlorobiphenyl (S)
  - Tetrachloro-m-xylene (S)
- BL-UR2-AC6-G, 9/6/08 (Lab ID: 408719020)
  - Decachlorobiphenyl (S)
  - Tetrachloro-m-xylene (S)

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 408719

Method: **Pace Lipid**
Description: Lipid
Client: POLLUTION RISK SERVICES
Date: October 15, 2008

General Information:
20 samples were analyzed for Pace Lipid. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

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ANALYTICAL RESULTS

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 408719

Sample: BL-IH-W2-G, 9/5/08 **Lab ID: 408719001** Collected: 09/05/08 00:00 Received: 09/09/08 13:30 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCBs, Tissue	Analytical Method: EPA 8082 Preparation Method: EPA 3540								
PCB-1016 (Aroclor 1016)	**<76.0**	ug/kg	200	76.0	4	09/24/08 14:01	10/02/08 06:52	12674-11-2	
PCB-1221 (Aroclor 1221)	**<76.0**	ug/kg	200	76.0	4	09/24/08 14:01	10/02/08 06:52	11104-28-2	
PCB-1232 (Aroclor 1232)	**<76.0**	ug/kg	200	76.0	4	09/24/08 14:01	10/02/08 06:52	11141-16-5	
PCB-1242 (Aroclor 1242)	**<76.0**	ug/kg	200	76.0	4	09/24/08 14:01	10/02/08 06:52	53469-21-9	
PCB-1248 (Aroclor 1248)	**843**	ug/kg	200	76.0	4	09/24/08 14:01	10/02/08 06:52	12672-29-6	
PCB-1254 (Aroclor 1254)	**432**	ug/kg	200	76.0	4	09/24/08 14:01	10/02/08 06:52	11097-69-1	
PCB-1260 (Aroclor 1260)	**88.0J**	ug/kg	200	76.0	4	09/24/08 14:01	10/02/08 06:52	11096-82-5	
PCB, Total	**1360**	ug/kg	200	76.0	4	09/24/08 14:01	10/02/08 06:52	1336-36-3	
Tetrachloro-m-xylene (S)	95	%	40-136		4	09/24/08 14:01	10/02/08 06:52	877-09-8	
Decachlorobiphenyl (S)	104	%	47-145		4	09/24/08 14:01	10/02/08 06:52	2051-24-3	
Lipid	Analytical Method: Pace Lipid								
Lipid	**2.7**	%		0.10	1		09/26/08 09:25		

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ANALYTICAL RESULTS

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 408719

Sample: BL-IH-W3-G, 9/5/08 **Lab ID: 408719002** Collected: 09/05/08 00:00 Received: 09/09/08 13:30 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCBs, Tissue	Analytical Method: EPA 8082 Preparation Method: EPA 3540								
PCB-1016 (Aroclor 1016)	**<95.0**	ug/kg	250	95.0	5	09/24/08 14:01	10/02/08 07:20	12674-11-2	
PCB-1221 (Aroclor 1221)	**<95.0**	ug/kg	250	95.0	5	09/24/08 14:01	10/02/08 07:20	11104-28-2	
PCB-1232 (Aroclor 1232)	**<95.0**	ug/kg	250	95.0	5	09/24/08 14:01	10/02/08 07:20	11141-16-5	
PCB-1242 (Aroclor 1242)	**<95.0**	ug/kg	250	95.0	5	09/24/08 14:01	10/02/08 07:20	53469-21-9	
PCB-1248 (Aroclor 1248)	**1170**	ug/kg	250	95.0	5	09/24/08 14:01	10/02/08 07:20	12672-29-6	
PCB-1254 (Aroclor 1254)	**566**	ug/kg	250	95.0	5	09/24/08 14:01	10/02/08 07:20	11097-69-1	
PCB-1260 (Aroclor 1260)	**<95.0**	ug/kg	250	95.0	5	09/24/08 14:01	10/02/08 07:20	11096-82-5	
PCB, Total	**1740**	ug/kg	250	95.0	5	09/24/08 14:01	10/02/08 07:20	1336-36-3	
Tetrachloro-m-xylene (S)	98	%	40-136		5	09/24/08 14:01	10/02/08 07:20	877-09-8	
Decachlorobiphenyl (S)	106	%	47-145		5	09/24/08 14:01	10/02/08 07:20	2051-24-3	
Lipid	Analytical Method: Pace Lipid								
Lipid	**1.7**	%		0.10	1		09/26/08 09:26		

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ANALYTICAL RESULTS

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 408719

Sample: BL-UR1-AC5-G, 9/6/08 **Lab ID: 408719003** Collected: 09/06/08 00:00 Received: 09/09/08 13:30 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCBs, Tissue	Analytical Method: EPA 8082 Preparation Method: EPA 3540								
PCB-1016 (Aroclor 1016)	**<380**	ug/kg	1000	380	20	09/24/08 14:01	10/02/08 07:49	12674-11-2	
PCB-1221 (Aroclor 1221)	**<380**	ug/kg	1000	380	20	09/24/08 14:01	10/02/08 07:49	11104-28-2	
PCB-1232 (Aroclor 1232)	**<380**	ug/kg	1000	380	20	09/24/08 14:01	10/02/08 07:49	11141-16-5	
PCB-1242 (Aroclor 1242)	**<380**	ug/kg	1000	380	20	09/24/08 14:01	10/02/08 07:49	53469-21-9	
PCB-1248 (Aroclor 1248)	**3430**	ug/kg	1000	380	20	09/24/08 14:01	10/02/08 07:49	12672-29-6	
PCB-1254 (Aroclor 1254)	**1340**	ug/kg	1000	380	20	09/24/08 14:01	10/02/08 07:49	11097-69-1	
PCB-1260 (Aroclor 1260)	**<380**	ug/kg	1000	380	20	09/24/08 14:01	10/02/08 07:49	11096-82-5	
PCB, Total	**4770**	ug/kg	1000	380	20	09/24/08 14:01	10/02/08 07:49	1336-36-3	
Tetrachloro-m-xylene (S)	0	%	40-136		20	09/24/08 14:01	10/02/08 07:49	877-09-8	S4
Decachlorobiphenyl (S)	0	%	47-145		20	09/24/08 14:01	10/02/08 07:49	2051-24-3	S4
Lipid	Analytical Method: Pace Lipid								
Lipid	**2.2**	%		0.10	1		09/26/08 09:26		

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ANALYTICAL RESULTS

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 408719

Sample: BL-UR1-AC6-G, 9/6/08 **Lab ID: 408719004** Collected: 09/06/08 00:00 Received: 09/09/08 13:30 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCBs, Tissue	Analytical Method: EPA 8082 Preparation Method: EPA 3540								
PCB-1016 (Aroclor 1016)	**<950**	ug/kg	2500	950	50	09/24/08 14:01	10/02/08 08:17	12674-11-2	
PCB-1221 (Aroclor 1221)	**<950**	ug/kg	2500	950	50	09/24/08 14:01	10/02/08 08:17	11104-28-2	
PCB-1232 (Aroclor 1232)	**<950**	ug/kg	2500	950	50	09/24/08 14:01	10/02/08 08:17	11141-16-5	
PCB-1242 (Aroclor 1242)	**<950**	ug/kg	2500	950	50	09/24/08 14:01	10/02/08 08:17	53469-21-9	
PCB-1248 (Aroclor 1248)	**8450**	ug/kg	2500	950	50	09/24/08 14:01	10/02/08 08:17	12672-29-6	
PCB-1254 (Aroclor 1254)	**5540**	ug/kg	2500	950	50	09/24/08 14:01	10/02/08 08:17	11097-69-1	
PCB-1260 (Aroclor 1260)	**<950**	ug/kg	2500	950	50	09/24/08 14:01	10/02/08 08:17	11096-82-5	
PCB, Total	**14000**	ug/kg	2500	950	50	09/24/08 14:01	10/02/08 08:17	1336-36-3	
Tetrachloro-m-xylene (S)	0	%	40-136		50	09/24/08 14:01	10/02/08 08:17	877-09-8	S4
Decachlorobiphenyl (S)	0	%	47-145		50	09/24/08 14:01	10/02/08 08:17	2051-24-3	S4
Lipid	Analytical Method: Pace Lipid								
Lipid	**0.62**	%		0.10	1		09/26/08 09:26		

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ANALYTICAL RESULTS

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 408719

Sample: BL-UR1-AC7-G, 9/6/08 **Lab ID: 408719005** Collected: 09/06/08 00:00 Received: 09/09/08 13:30 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCBs, Tissue	Analytical Method: EPA 8082 Preparation Method: EPA 3540								
PCB-1016 (Aroclor 1016)	**<950**	ug/kg	2500	950	50	09/24/08 14:01	10/02/08 08:45	12674-11-2	
PCB-1221 (Aroclor 1221)	**<950**	ug/kg	2500	950	50	09/24/08 14:01	10/02/08 08:45	11104-28-2	
PCB-1232 (Aroclor 1232)	**<950**	ug/kg	2500	950	50	09/24/08 14:01	10/02/08 08:45	11141-16-5	
PCB-1242 (Aroclor 1242)	**<950**	ug/kg	2500	950	50	09/24/08 14:01	10/02/08 08:45	53469-21-9	
PCB-1248 (Aroclor 1248)	**11600**	ug/kg	2500	950	50	09/24/08 14:01	10/02/08 08:45	12672-29-6	
PCB-1254 (Aroclor 1254)	**5980**	ug/kg	2500	950	50	09/24/08 14:01	10/02/08 08:45	11097-69-1	
PCB-1260 (Aroclor 1260)	**<950**	ug/kg	2500	950	50	09/24/08 14:01	10/02/08 08:45	11096-82-5	
PCB, Total	**17600**	ug/kg	2500	950	50	09/24/08 14:01	10/02/08 08:45	1336-36-3	
Tetrachloro-m-xylene (S)	0	%	40-136		50	09/24/08 14:01	10/02/08 08:45	877-09-8	S4
Decachlorobiphenyl (S)	0	%	47-145		50	09/24/08 14:01	10/02/08 08:45	2051-24-3	S4
Lipid	Analytical Method: Pace Lipid								
Lipid	**2.5**	%		0.10	1		09/26/08 09:27		

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ANALYTICAL RESULTS

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 408719

Sample: BL-UR1-AC8-G, 9/6/08 **Lab ID: 408719006** Collected: 09/06/08 00:00 Received: 09/09/08 13:30 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCBs, Tissue	Analytical Method: EPA 8082 Preparation Method: EPA 3540								
PCB-1016 (Aroclor 1016)	**<95.0**	ug/kg	250	95.0	5	09/24/08 14:01	10/02/08 09:13	12674-11-2	
PCB-1221 (Aroclor 1221)	**<95.0**	ug/kg	250	95.0	5	09/24/08 14:01	10/02/08 09:13	11104-28-2	
PCB-1232 (Aroclor 1232)	**<95.0**	ug/kg	250	95.0	5	09/24/08 14:01	10/02/08 09:13	11141-16-5	
PCB-1242 (Aroclor 1242)	**<95.0**	ug/kg	250	95.0	5	09/24/08 14:01	10/02/08 09:13	53469-21-9	
PCB-1248 (Aroclor 1248)	**1430**	ug/kg	250	95.0	5	09/24/08 14:01	10/02/08 09:13	12672-29-6	
PCB-1254 (Aroclor 1254)	**652**	ug/kg	250	95.0	5	09/24/08 14:01	10/02/08 09:13	11097-69-1	
PCB-1260 (Aroclor 1260)	**<95.0**	ug/kg	250	95.0	5	09/24/08 14:01	10/02/08 09:13	11096-82-5	
PCB, Total	**2080**	ug/kg	250	95.0	5	09/24/08 14:01	10/02/08 09:13	1336-36-3	
Tetrachloro-m-xylene (S)	92	%	40-136		5	09/24/08 14:01	10/02/08 09:13	877-09-8	
Decachlorobiphenyl (S)	98	%	47-145		5	09/24/08 14:01	10/02/08 09:13	2051-24-3	
Lipid	Analytical Method: Pace Lipid								
Lipid	**0.34**	%		0.10	1		09/26/08 09:27		

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ANALYTICAL RESULTS

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 408719

Sample: BL-UR1-AC9-G, 9/6/08 **Lab ID: 408719007** Collected: 09/06/08 00:00 Received: 09/09/08 13:30 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCBs, Tissue	Analytical Method: EPA 8082 Preparation Method: EPA 3540								
PCB-1016 (Aroclor 1016)	**<1900**	ug/kg	5000	1900	100	09/24/08 14:01	10/02/08 17:10	12674-11-2	
PCB-1221 (Aroclor 1221)	**<1900**	ug/kg	5000	1900	100	09/24/08 14:01	10/02/08 17:10	11104-28-2	
PCB-1232 (Aroclor 1232)	**<1900**	ug/kg	5000	1900	100	09/24/08 14:01	10/02/08 17:10	11141-16-5	
PCB-1242 (Aroclor 1242)	**<1900**	ug/kg	5000	1900	100	09/24/08 14:01	10/02/08 17:10	53469-21-9	
PCB-1248 (Aroclor 1248)	**30000**	ug/kg	5000	1900	100	09/24/08 14:01	10/02/08 17:10	12672-29-6	
PCB-1254 (Aroclor 1254)	**22000**	ug/kg	5000	1900	100	09/24/08 14:01	10/02/08 17:10	11097-69-1	
PCB-1260 (Aroclor 1260)	**1950J**	ug/kg	5000	1900	100	09/24/08 14:01	10/02/08 17:10	11096-82-5	
PCB, Total	**53900**	ug/kg	5000	1900	100	09/24/08 14:01	10/02/08 17:10	1336-36-3	
Tetrachloro-m-xylene (S)	0	%	40-136		100	09/24/08 14:01	10/02/08 17:10	877-09-8	S4
Decachlorobiphenyl (S)	0	%	47-145		100	09/24/08 14:01	10/02/08 17:10	2051-24-3	S4
Lipid	Analytical Method: Pace Lipid								
Lipid	**7.5**	%		0.10	1		09/26/08 09:27		

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ANALYTICAL RESULTS

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 408719

Sample: BL-UR1-AC10-G, 9/6/08 **Lab ID: 408719008** Collected: 09/06/08 00:00 Received: 09/09/08 13:30 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCBs, Tissue	Analytical Method: EPA 8082 Preparation Method: EPA 3540								
PCB-1016 (Aroclor 1016)	**<1900**	ug/kg	5000	1900	100	09/24/08 14:01	10/02/08 10:09	12674-11-2	
PCB-1221 (Aroclor 1221)	**<1900**	ug/kg	5000	1900	100	09/24/08 14:01	10/02/08 10:09	11104-28-2	
PCB-1232 (Aroclor 1232)	**<1900**	ug/kg	5000	1900	100	09/24/08 14:01	10/02/08 10:09	11141-16-5	
PCB-1242 (Aroclor 1242)	**<1900**	ug/kg	5000	1900	100	09/24/08 14:01	10/02/08 10:09	53469-21-9	
PCB-1248 (Aroclor 1248)	**14900**	ug/kg	5000	1900	100	09/24/08 14:01	10/02/08 10:09	12672-29-6	
PCB-1254 (Aroclor 1254)	**13500**	ug/kg	5000	1900	100	09/24/08 14:01	10/02/08 10:09	11097-69-1	
PCB-1260 (Aroclor 1260)	**<1900**	ug/kg	5000	1900	100	09/24/08 14:01	10/02/08 10:09	11096-82-5	
PCB, Total	**28400**	ug/kg	5000	1900	100	09/24/08 14:01	10/02/08 10:09	1336-36-3	
Tetrachloro-m-xylene (S)	0	%	40-136		100	09/24/08 14:01	10/02/08 10:09	877-09-8	S4
Decachlorobiphenyl (S)	0	%	47-145		100	09/24/08 14:01	10/02/08 10:09	2051-24-3	S4
Lipid	Analytical Method: Pace Lipid								
Lipid	**7.5**	%		0.10	1		09/26/08 09:27		

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ANALYTICAL RESULTS

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 408719

Sample: BL-UR1-AC11-G, 9/6/08 **Lab ID: 408719009** Collected: 09/06/08 00:00 Received: 09/09/08 13:30 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCBs, Tissue	Analytical Method: EPA 8082 Preparation Method: EPA 3540								
PCB-1016 (Aroclor 1016)	**<570**	ug/kg	1500	570	30	09/24/08 14:01	10/02/08 11:33	12674-11-2	
PCB-1221 (Aroclor 1221)	**<570**	ug/kg	1500	570	30	09/24/08 14:01	10/02/08 11:33	11104-28-2	
PCB-1232 (Aroclor 1232)	**<570**	ug/kg	1500	570	30	09/24/08 14:01	10/02/08 11:33	11141-16-5	
PCB-1242 (Aroclor 1242)	**<570**	ug/kg	1500	570	30	09/24/08 14:01	10/02/08 11:33	53469-21-9	
PCB-1248 (Aroclor 1248)	**6980**	ug/kg	1500	570	30	09/24/08 14:01	10/02/08 11:33	12672-29-6	
PCB-1254 (Aroclor 1254)	**2500**	ug/kg	1500	570	30	09/24/08 14:01	10/02/08 11:33	11097-69-1	
PCB-1260 (Aroclor 1260)	**<570**	ug/kg	1500	570	30	09/24/08 14:01	10/02/08 11:33	11096-82-5	
PCB, Total	**9480**	ug/kg	1500	570	30	09/24/08 14:01	10/02/08 11:33	1336-36-3	
Tetrachloro-m-xylene (S)	0	%	40-136		30	09/24/08 14:01	10/02/08 11:33	877-09-8	S4
Decachlorobiphenyl (S)	0	%	47-145		30	09/24/08 14:01	10/02/08 11:33	2051-24-3	S4
Lipid	Analytical Method: Pace Lipid								
Lipid	**3.4**	%		0.10	1		09/26/08 09:28		

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ANALYTICAL RESULTS

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 408719

Sample: BL-UR1-AC12-G, 9/6/08 **Lab ID: 408719010** Collected: 09/06/08 00:00 Received: 09/09/08 13:30 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCBs, Tissue	Analytical Method: EPA 8082 Preparation Method: EPA 3540								
PCB-1016 (Aroclor 1016)	**<1900**	ug/kg	5000	1900	100	09/24/08 14:01	10/02/08 12:01	12674-11-2	
PCB-1221 (Aroclor 1221)	**<1900**	ug/kg	5000	1900	100	09/24/08 14:01	10/02/08 12:01	11104-28-2	
PCB-1232 (Aroclor 1232)	**<1900**	ug/kg	5000	1900	100	09/24/08 14:01	10/02/08 12:01	11141-16-5	
PCB-1242 (Aroclor 1242)	**<1900**	ug/kg	5000	1900	100	09/24/08 14:01	10/02/08 12:01	53469-21-9	
PCB-1248 (Aroclor 1248)	**17100**	ug/kg	5000	1900	100	09/24/08 14:01	10/02/08 12:01	12672-29-6	
PCB-1254 (Aroclor 1254)	**12300**	ug/kg	5000	1900	100	09/24/08 14:01	10/02/08 12:01	11097-69-1	
PCB-1260 (Aroclor 1260)	**<1900**	ug/kg	5000	1900	100	09/24/08 14:01	10/02/08 12:01	11096-82-5	
PCB, Total	**29400**	ug/kg	5000	1900	100	09/24/08 14:01	10/02/08 12:01	1336-36-3	
Tetrachloro-m-xylene (S)	0	%	40-136		100	09/24/08 14:01	10/02/08 12:01	877-09-8	S4
Decachlorobiphenyl (S)	0	%	47-145		100	09/24/08 14:01	10/02/08 12:01	2051-24-3	S4
Lipid	Analytical Method: Pace Lipid								
Lipid	**3.0**	%		0.10	1		09/26/08 09:28		

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ANALYTICAL RESULTS

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 408719

Sample: BL-UR1-AC13-G, 9/6/08 **Lab ID: 408719011** Collected: 09/06/08 00:00 Received: 09/09/08 13:30 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCBs, Tissue	Analytical Method: EPA 8082 Preparation Method: EPA 3540								
PCB-1016 (Aroclor 1016)	**<1900**	ug/kg	5000	1900	100	09/24/08 14:01	10/02/08 12:29	12674-11-2	
PCB-1221 (Aroclor 1221)	**<1900**	ug/kg	5000	1900	100	09/24/08 14:01	10/02/08 12:29	11104-28-2	
PCB-1232 (Aroclor 1232)	**<1900**	ug/kg	5000	1900	100	09/24/08 14:01	10/02/08 12:29	11141-16-5	
PCB-1242 (Aroclor 1242)	**<1900**	ug/kg	5000	1900	100	09/24/08 14:01	10/02/08 12:29	53469-21-9	
PCB-1248 (Aroclor 1248)	**21600**	ug/kg	5000	1900	100	09/24/08 14:01	10/02/08 12:29	12672-29-6	
PCB-1254 (Aroclor 1254)	**11700**	ug/kg	5000	1900	100	09/24/08 14:01	10/02/08 12:29	11097-69-1	
PCB-1260 (Aroclor 1260)	**<1900**	ug/kg	5000	1900	100	09/24/08 14:01	10/02/08 12:29	11096-82-5	
PCB, Total	**33300**	ug/kg	5000	1900	100	09/24/08 14:01	10/02/08 12:29	1336-36-3	
Tetrachloro-m-xylene (S)	0	%	40-136		100	09/24/08 14:01	10/02/08 12:29	877-09-8	S4
Decachlorobiphenyl (S)	0	%	47-145		100	09/24/08 14:01	10/02/08 12:29	2051-24-3	S4
Lipid	Analytical Method: Pace Lipid								
Lipid	**13.7**	%		0.10	1		09/26/08 09:31		

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ANALYTICAL RESULTS

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 408719

Sample: BL-UR1-AC14-G, 9/6/08 **Lab ID: 408719012** Collected: 09/06/08 00:00 Received: 09/09/08 13:30 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCBs, Tissue	Analytical Method: EPA 8082 Preparation Method: EPA 3540								
PCB-1016 (Aroclor 1016)	**<570**	ug/kg	1500	570	30	09/24/08 14:01	10/02/08 12:57	12674-11-2	
PCB-1221 (Aroclor 1221)	**<570**	ug/kg	1500	570	30	09/24/08 14:01	10/02/08 12:57	11104-28-2	
PCB-1232 (Aroclor 1232)	**<570**	ug/kg	1500	570	30	09/24/08 14:01	10/02/08 12:57	11141-16-5	
PCB-1242 (Aroclor 1242)	**<570**	ug/kg	1500	570	30	09/24/08 14:01	10/02/08 12:57	53469-21-9	
PCB-1248 (Aroclor 1248)	**4370**	ug/kg	1500	570	30	09/24/08 14:01	10/02/08 12:57	12672-29-6	
PCB-1254 (Aroclor 1254)	**4580**	ug/kg	1500	570	30	09/24/08 14:01	10/02/08 12:57	11097-69-1	
PCB-1260 (Aroclor 1260)	**604J**	ug/kg	1500	570	30	09/24/08 14:01	10/02/08 12:57	11096-82-5	
PCB, Total	**9550**	ug/kg	1500	570	30	09/24/08 14:01	10/02/08 12:57	1336-36-3	
Tetrachloro-m-xylene (S)	0	%	40-136		30	09/24/08 14:01	10/02/08 12:57	877-09-8	S4
Decachlorobiphenyl (S)	0	%	47-145		30	09/24/08 14:01	10/02/08 12:57	2051-24-3	S4
Lipid	Analytical Method: Pace Lipid								
Lipid	**1.0**	%		0.10	1		09/26/08 09:28		

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ANALYTICAL RESULTS

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 408719

Sample: BL-UR1-AC15-G, 9/6/08 **Lab ID: 408719013** Collected: 09/06/08 00:00 Received: 09/09/08 13:30 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCBs, Tissue	Analytical Method: EPA 8082 Preparation Method: EPA 3540								
PCB-1016 (Aroclor 1016)	**<3800**	ug/kg	10000	3800	200	09/24/08 14:01	10/02/08 13:26	12674-11-2	
PCB-1221 (Aroclor 1221)	**<3800**	ug/kg	10000	3800	200	09/24/08 14:01	10/02/08 13:26	11104-28-2	
PCB-1232 (Aroclor 1232)	**<3800**	ug/kg	10000	3800	200	09/24/08 14:01	10/02/08 13:26	11141-16-5	
PCB-1242 (Aroclor 1242)	**<3800**	ug/kg	10000	3800	200	09/24/08 14:01	10/02/08 13:26	53469-21-9	
PCB-1248 (Aroclor 1248)	**37600**	ug/kg	10000	3800	200	09/24/08 14:01	10/02/08 13:26	12672-29-6	
PCB-1254 (Aroclor 1254)	**17800**	ug/kg	10000	3800	200	09/24/08 14:01	10/02/08 13:26	11097-69-1	
PCB-1260 (Aroclor 1260)	**<3800**	ug/kg	10000	3800	200	09/24/08 14:01	10/02/08 13:26	11096-82-5	
PCB, Total	**55500**	ug/kg	10000	3800	200	09/24/08 14:01	10/02/08 13:26	1336-36-3	
Tetrachloro-m-xylene (S)	0	%	40-136		200	09/24/08 14:01	10/02/08 13:26	877-09-8	S4
Decachlorobiphenyl (S)	0	%	47-145		200	09/24/08 14:01	10/02/08 13:26	2051-24-3	S4
Lipid	Analytical Method: Pace Lipid								
Lipid	**8.7**	%		0.10	1		09/26/08 09:29		

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ANALYTICAL RESULTS

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 408719

Sample: BL-UR1-AC16-G, 9/6/08 **Lab ID: 408719014** Collected: 09/06/08 00:00 Received: 09/09/08 13:30 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCBs, Tissue	Analytical Method: EPA 8082 Preparation Method: EPA 3540								
PCB-1016 (Aroclor 1016)	**<1900**	ug/kg	5000	1900	100	09/24/08 14:01	10/02/08 13:54	12674-11-2	
PCB-1221 (Aroclor 1221)	**<1900**	ug/kg	5000	1900	100	09/24/08 14:01	10/02/08 13:54	11104-28-2	
PCB-1232 (Aroclor 1232)	**<1900**	ug/kg	5000	1900	100	09/24/08 14:01	10/02/08 13:54	11141-16-5	
PCB-1242 (Aroclor 1242)	**<1900**	ug/kg	5000	1900	100	09/24/08 14:01	10/02/08 13:54	53469-21-9	
PCB-1248 (Aroclor 1248)	**19800**	ug/kg	5000	1900	100	09/24/08 14:01	10/02/08 13:54	12672-29-6	
PCB-1254 (Aroclor 1254)	**17100**	ug/kg	5000	1900	100	09/24/08 14:01	10/02/08 13:54	11097-69-1	
PCB-1260 (Aroclor 1260)	**<1900**	ug/kg	5000	1900	100	09/24/08 14:01	10/02/08 13:54	11096-82-5	
PCB, Total	**36900**	ug/kg	5000	1900	100	09/24/08 14:01	10/02/08 13:54	1336-36-3	
Tetrachloro-m-xylene (S)	0	%	40-136		100	09/24/08 14:01	10/02/08 13:54	877-09-8	S4
Decachlorobiphenyl (S)	0	%	47-145		100	09/24/08 14:01	10/02/08 13:54	2051-24-3	S4
Lipid	Analytical Method: Pace Lipid								
Lipid	**7.0**	%		0.10	1		09/26/08 09:29		

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ANALYTICAL RESULTS

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 408719

Sample: BL-UR1-AWS5-G, 9/6/08 **Lab ID: 408719015** Collected: 09/06/08 00:00 Received: 09/09/08 13:30 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCBs, Tissue	Analytical Method: EPA 8082 Preparation Method: EPA 3540								
PCB-1016 (Aroclor 1016)	**<570**	ug/kg	1500	570	30	09/24/08 14:01	10/02/08 14:22	12674-11-2	
PCB-1221 (Aroclor 1221)	**<570**	ug/kg	1500	570	30	09/24/08 14:01	10/02/08 14:22	11104-28-2	
PCB-1232 (Aroclor 1232)	**<570**	ug/kg	1500	570	30	09/24/08 14:01	10/02/08 14:22	11141-16-5	
PCB-1242 (Aroclor 1242)	**<570**	ug/kg	1500	570	30	09/24/08 14:01	10/02/08 14:22	53469-21-9	
PCB-1248 (Aroclor 1248)	**5910**	ug/kg	1500	570	30	09/24/08 14:01	10/02/08 14:22	12672-29-6	
PCB-1254 (Aroclor 1254)	**4710**	ug/kg	1500	570	30	09/24/08 14:01	10/02/08 14:22	11097-69-1	
PCB-1260 (Aroclor 1260)	**<570**	ug/kg	1500	570	30	09/24/08 14:01	10/02/08 14:22	11096-82-5	
PCB, Total	**10600**	ug/kg	1500	570	30	09/24/08 14:01	10/02/08 14:22	1336-36-3	
Tetrachloro-m-xylene (S)	0	%	40-136		30	09/24/08 14:01	10/02/08 14:22	877-09-8	S4
Decachlorobiphenyl (S)	0	%	47-145		30	09/24/08 14:01	10/02/08 14:22	2051-24-3	S4
Lipid	Analytical Method: Pace Lipid								
Lipid	**0.86**	%		0.10	1		09/26/08 09:29		

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ANALYTICAL RESULTS

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 408719

Sample: BL-UR1-AWS6-G, 9/6/08 **Lab ID: 408719016** Collected: 09/06/08 00:00 Received: 09/09/08 13:30 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCBs, Tissue	Analytical Method: EPA 8082 Preparation Method: EPA 3540								
PCB-1016 (Aroclor 1016)	**<380**	ug/kg	1000	380	20	09/24/08 14:01	10/02/08 14:50	12674-11-2	
PCB-1221 (Aroclor 1221)	**<380**	ug/kg	1000	380	20	09/24/08 14:01	10/02/08 14:50	11104-28-2	
PCB-1232 (Aroclor 1232)	**<380**	ug/kg	1000	380	20	09/24/08 14:01	10/02/08 14:50	11141-16-5	
PCB-1242 (Aroclor 1242)	**<380**	ug/kg	1000	380	20	09/24/08 14:01	10/02/08 14:50	53469-21-9	
PCB-1248 (Aroclor 1248)	**3170**	ug/kg	1000	380	20	09/24/08 14:01	10/02/08 14:50	12672-29-6	
PCB-1254 (Aroclor 1254)	**2580**	ug/kg	1000	380	20	09/24/08 14:01	10/02/08 14:50	11097-69-1	
PCB-1260 (Aroclor 1260)	**<380**	ug/kg	1000	380	20	09/24/08 14:01	10/02/08 14:50	11096-82-5	
PCB, Total	**5740**	ug/kg	1000	380	20	09/24/08 14:01	10/02/08 14:50	1336-36-3	
Tetrachloro-m-xylene (S)	0	%	40-136		20	09/24/08 14:01	10/02/08 14:50	877-09-8	S4
Decachlorobiphenyl (S)	0	%	47-145		20	09/24/08 14:01	10/02/08 14:50	2051-24-3	S4
Lipid	Analytical Method: Pace Lipid								
Lipid	**0.50**	%		0.10	1		09/26/08 09:29		

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ANALYTICAL RESULTS

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 408719

Sample: BL-UR1-AWS7-G, 9/6/08 **Lab ID: 408719017** Collected: 09/06/08 00:00 Received: 09/09/08 13:30 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCBs, Tissue	Analytical Method: EPA 8082 Preparation Method: EPA 3540								
PCB-1016 (Aroclor 1016)	**<380**	ug/kg	1000	380	20	09/24/08 14:01	10/02/08 15:18	12674-11-2	
PCB-1221 (Aroclor 1221)	**<380**	ug/kg	1000	380	20	09/24/08 14:01	10/02/08 15:18	11104-28-2	
PCB-1232 (Aroclor 1232)	**<380**	ug/kg	1000	380	20	09/24/08 14:01	10/02/08 15:18	11141-16-5	
PCB-1242 (Aroclor 1242)	**<380**	ug/kg	1000	380	20	09/24/08 14:01	10/02/08 15:18	53469-21-9	
PCB-1248 (Aroclor 1248)	**3430**	ug/kg	1000	380	20	09/24/08 14:01	10/02/08 15:18	12672-29-6	
PCB-1254 (Aroclor 1254)	**3920**	ug/kg	1000	380	20	09/24/08 14:01	10/02/08 15:18	11097-69-1	
PCB-1260 (Aroclor 1260)	**<380**	ug/kg	1000	380	20	09/24/08 14:01	10/02/08 15:18	11096-82-5	
PCB, Total	**7340**	ug/kg	1000	380	20	09/24/08 14:01	10/02/08 15:18	1336-36-3	
Tetrachloro-m-xylene (S)	0	%	40-136		20	09/24/08 14:01	10/02/08 15:18	877-09-8	S4
Decachlorobiphenyl (S)	0	%	47-145		20	09/24/08 14:01	10/02/08 15:18	2051-24-3	S4
Lipid	Analytical Method: Pace Lipid								
Lipid	**0.33**	%		0.10	1		09/26/08 09:29		

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ANALYTICAL RESULTS

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 408719

Sample: BL-UR1-AWS8-G, 9/6/08 **Lab ID: 408719018** Collected: 09/06/08 00:00 Received: 09/09/08 13:30 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCBs, Tissue	Analytical Method: EPA 8082 Preparation Method: EPA 3540								
PCB-1016 (Aroclor 1016)	**<950**	ug/kg	2500	950	50	09/24/08 14:01	10/02/08 15:46	12674-11-2	
PCB-1221 (Aroclor 1221)	**<950**	ug/kg	2500	950	50	09/24/08 14:01	10/02/08 15:46	11104-28-2	
PCB-1232 (Aroclor 1232)	**<950**	ug/kg	2500	950	50	09/24/08 14:01	10/02/08 15:46	11141-16-5	
PCB-1242 (Aroclor 1242)	**<950**	ug/kg	2500	950	50	09/24/08 14:01	10/02/08 15:46	53469-21-9	
PCB-1248 (Aroclor 1248)	**6990**	ug/kg	2500	950	50	09/24/08 14:01	10/02/08 15:46	12672-29-6	
PCB-1254 (Aroclor 1254)	**5260**	ug/kg	2500	950	50	09/24/08 14:01	10/02/08 15:46	11097-69-1	
PCB-1260 (Aroclor 1260)	**<950**	ug/kg	2500	950	50	09/24/08 14:01	10/02/08 15:46	11096-82-5	
PCB, Total	**12300**	ug/kg	2500	950	50	09/24/08 14:01	10/02/08 15:46	1336-36-3	
Tetrachloro-m-xylene (S)	0	%	40-136		50	09/24/08 14:01	10/02/08 15:46	877-09-8	S4
Decachlorobiphenyl (S)	0	%	47-145		50	09/24/08 14:01	10/02/08 15:46	2051-24-3	S4
Lipid	Analytical Method: Pace Lipid								
Lipid	**0.76**	%		0.10	1		09/26/08 09:30		

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(920)469-2436

ANALYTICAL RESULTS

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 408719

Sample: BL-UR2-AC5-G, 9/6/08 **Lab ID: 408719019** Collected: 09/06/08 00:00 Received: 09/09/08 13:30 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCBs, Tissue	Analytical Method: EPA 8082 Preparation Method: EPA 3540								
PCB-1016 (Aroclor 1016)	**<190**	ug/kg	500	190	10	09/24/08 14:01	10/02/08 16:14	12674-11-2	
PCB-1221 (Aroclor 1221)	**<190**	ug/kg	500	190	10	09/24/08 14:01	10/02/08 16:14	11104-28-2	
PCB-1232 (Aroclor 1232)	**<190**	ug/kg	500	190	10	09/24/08 14:01	10/02/08 16:14	11141-16-5	
PCB-1242 (Aroclor 1242)	**<190**	ug/kg	500	190	10	09/24/08 14:01	10/02/08 16:14	53469-21-9	
PCB-1248 (Aroclor 1248)	**2710**	ug/kg	500	190	10	09/24/08 14:01	10/02/08 16:14	12672-29-6	
PCB-1254 (Aroclor 1254)	**1020**	ug/kg	500	190	10	09/24/08 14:01	10/02/08 16:14	11097-69-1	
PCB-1260 (Aroclor 1260)	**<190**	ug/kg	500	190	10	09/24/08 14:01	10/02/08 16:14	11096-82-5	
PCB, Total	**3730**	ug/kg	500	190	10	09/24/08 14:01	10/02/08 16:14	1336-36-3	
Tetrachloro-m-xylene (S)	92	%	40-136		10	09/24/08 14:01	10/02/08 16:14	877-09-8	
Decachlorobiphenyl (S)	106	%	47-145		10	09/24/08 14:01	10/02/08 16:14	2051-24-3	
Lipid	Analytical Method: Pace Lipid								
Lipid	**1.3**	%		0.10	1		09/26/08 09:30		

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ANALYTICAL RESULTS

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 408719

Sample: BL-UR2-AC6-G, 9/6/08 **Lab ID: 408719020** Collected: 09/06/08 00:00 Received: 09/09/08 13:30 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCBs, Tissue	Analytical Method: EPA 8082 Preparation Method: EPA 3540								
PCB-1016 (Aroclor 1016)	**<1900**	ug/kg	5000	1900	100	09/24/08 14:01	10/02/08 16:42	12674-11-2	
PCB-1221 (Aroclor 1221)	**<1900**	ug/kg	5000	1900	100	09/24/08 14:01	10/02/08 16:42	11104-28-2	
PCB-1232 (Aroclor 1232)	**<1900**	ug/kg	5000	1900	100	09/24/08 14:01	10/02/08 16:42	11141-16-5	
PCB-1242 (Aroclor 1242)	**<1900**	ug/kg	5000	1900	100	09/24/08 14:01	10/02/08 16:42	53469-21-9	
PCB-1248 (Aroclor 1248)	**16800**	ug/kg	5000	1900	100	09/24/08 14:01	10/02/08 16:42	12672-29-6	
PCB-1254 (Aroclor 1254)	**13400**	ug/kg	5000	1900	100	09/24/08 14:01	10/02/08 16:42	11097-69-1	
PCB-1260 (Aroclor 1260)	**<1900**	ug/kg	5000	1900	100	09/24/08 14:01	10/02/08 16:42	11096-82-5	
PCB, Total	**30200**	ug/kg	5000	1900	100	09/24/08 14:01	10/02/08 16:42	1336-36-3	
Tetrachloro-m-xylene (S)	0	%	40-136		100	09/24/08 14:01	10/02/08 16:42	877-09-8	S4
Decachlorobiphenyl (S)	0	%	47-145		100	09/24/08 14:01	10/02/08 16:42	2051-24-3	S4
Lipid	Analytical Method: Pace Lipid								
Lipid	**3.2**	%		0.10	1		09/26/08 09:30		

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QUALITY CONTROL DATA

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 408719

QC Batch: OEXT/2766 Analysis Method: EPA 8082
QC Batch Method: EPA 3540 Analysis Description: 8082 GCS Tissue Pesticides
Associated Lab Samples: 408719001, 408719002, 408719003, 408719004, 408719005, 408719006, 408719007, 408719008, 408719009, 408719010, 408719011, 408719012, 408719013, 408719014, 408719015, 408719016, 408719017, 408719018, 408719019, 408719020

METHOD BLANK: 80358 Matrix: Tissue
Associated Lab Samples: 408719001, 408719002, 408719003, 408719004, 408719005, 408719006, 408719007, 408719008, 408719009, 408719010, 408719011, 408719012, 408719013, 408719014, 408719015, 408719016, 408719017, 408719018, 408719019, 408719020

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg	<19.0	50.0	10/02/08 05:00	
PCB-1221 (Aroclor 1221)	ug/kg	<19.0	50.0	10/02/08 05:00	
PCB-1232 (Aroclor 1232)	ug/kg	<19.0	50.0	10/02/08 05:00	
PCB-1242 (Aroclor 1242)	ug/kg	<19.0	50.0	10/02/08 05:00	
PCB-1248 (Aroclor 1248)	ug/kg	<19.0	50.0	10/02/08 05:00	
PCB-1254 (Aroclor 1254)	ug/kg	<19.0	50.0	10/02/08 05:00	
PCB-1260 (Aroclor 1260)	ug/kg	<19.0	50.0	10/02/08 05:00	
Decachlorobiphenyl (S)	%	103	47-145	10/02/08 05:00	
Tetrachloro-m-xylene (S)	%	94	40-136	10/02/08 05:00	

LABORATORY CONTROL SAMPLE: 80359

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg		<19.0			
PCB-1221 (Aroclor 1221)	ug/kg		<19.0			
PCB-1232 (Aroclor 1232)	ug/kg		<19.0			
PCB-1242 (Aroclor 1242)	ug/kg		<19.0			
PCB-1248 (Aroclor 1248)	ug/kg		<19.0			
PCB-1254 (Aroclor 1254)	ug/kg	250	260	104	40-128	
PCB-1260 (Aroclor 1260)	ug/kg		<19.0			
Decachlorobiphenyl (S)	%			96	47-145	
Tetrachloro-m-xylene (S)	%			94	40-136	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 80360 80361

Parameter	Units	408719001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
PCB-1016 (Aroclor 1016)	ug/kg	<76.0			<190	<190					56	
PCB-1221 (Aroclor 1221)	ug/kg	<76.0			<190	<190					56	
PCB-1232 (Aroclor 1232)	ug/kg	<76.0			<190	<190					56	
PCB-1242 (Aroclor 1242)	ug/kg	<76.0			<190	<190					56	
PCB-1248 (Aroclor 1248)	ug/kg	843			868	808				7	56	
PCB-1254 (Aroclor 1254)	ug/kg	432	1000	1000	1300	1330	87	90	43-130	2	56	
PCB-1260 (Aroclor 1260)	ug/kg	88.0J			<190	<190					56	
Decachlorobiphenyl (S)	%						94	106	47-145			
Tetrachloro-m-xylene (S)	%						85	90	40-136			

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 408719

QC Batch: OEXT/2778 Analysis Method: Pace Lipid
QC Batch Method: Pace Lipid Analysis Description: LIPID
Associated Lab Samples: 408719001, 408719002, 408719003, 408719004, 408719005, 408719006, 408719007, 408719008, 408719009, 408719010, 408719011, 408719012, 408719013, 408719014, 408719015, 408719016, 408719017, 408719018, 408719019, 408719020

METHOD BLANK: 80963 Matrix: Tissue
Associated Lab Samples: 408719001, 408719002, 408719003, 408719004, 408719005, 408719006, 408719007, 408719008, 408719009, 408719010, 408719011, 408719012, 408719013, 408719014, 408719015, 408719016, 408719017, 408719018, 408719019, 408719020

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lipid	%	<0.10		09/26/08 09:25	

SAMPLE DUPLICATE: 80964

Parameter	Units	408719001 Result	Dup Result	RPD	Max RPD	Qualifiers
Lipid	%	2.7	3.7	30	20	

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QUALIFIERS

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 408719

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

Pace Analytical is NELAP accredited. Contact your Pace PM for the current list of accredited analytes.

ANALYTE QUALIFIERS

S4 Surrogate recovery not evaluated against control limits due to sample dilution.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 408719

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
408719001	**BL-IH-W2-G, 9/5/08**	EPA 3540	OEXT/2766	EPA 8082	GCSV/1944
408719002	**BL-IH-W3-G, 9/5/08**	EPA 3540	OEXT/2766	EPA 8082	GCSV/1944
408719003	**BL-UR1-AC5-G, 9/6/08**	EPA 3540	OEXT/2766	EPA 8082	GCSV/1944
408719004	**BL-UR1-AC6-G, 9/6/08**	EPA 3540	OEXT/2766	EPA 8082	GCSV/1944
408719005	**BL-UR1-AC7-G, 9/6/08**	EPA 3540	OEXT/2766	EPA 8082	GCSV/1944
408719006	**BL-UR1-AC8-G, 9/6/08**	EPA 3540	OEXT/2766	EPA 8082	GCSV/1944
408719007	**BL-UR1-AC9-G, 9/6/08**	EPA 3540	OEXT/2766	EPA 8082	GCSV/1944
408719008	**BL-UR1-AC10-G, 9/6/08**	EPA 3540	OEXT/2766	EPA 8082	GCSV/1944
408719009	**BL-UR1-AC11-G, 9/6/08**	EPA 3540	OEXT/2766	EPA 8082	GCSV/1944
408719010	**BL-UR1-AC12-G, 9/6/08**	EPA 3540	OEXT/2766	EPA 8082	GCSV/1944
408719011	**BL-UR1-AC13-G, 9/6/08**	EPA 3540	OEXT/2766	EPA 8082	GCSV/1944
408719012	**BL-UR1-AC14-G, 9/6/08**	EPA 3540	OEXT/2766	EPA 8082	GCSV/1944
408719013	**BL-UR1-AC15-G, 9/6/08**	EPA 3540	OEXT/2766	EPA 8082	GCSV/1944
408719014	**BL-UR1-AC16-G, 9/6/08**	EPA 3540	OEXT/2766	EPA 8082	GCSV/1944
408719015	**BL-UR1-AWS5-G, 9/6/08**	EPA 3540	OEXT/2766	EPA 8082	GCSV/1944
408719016	**BL-UR1-AWS6-G, 9/6/08**	EPA 3540	OEXT/2766	EPA 8082	GCSV/1944
408719017	**BL-UR1-AWS7-G, 9/6/08**	EPA 3540	OEXT/2766	EPA 8082	GCSV/1944
408719018	**BL-UR1-AWS8-G, 9/6/08**	EPA 3540	OEXT/2766	EPA 8082	GCSV/1944
408719019	**BL-UR2-AC5-G, 9/6/08**	EPA 3540	OEXT/2766	EPA 8082	GCSV/1944
408719020	**BL-UR2-AC6-G, 9/6/08**	EPA 3540	OEXT/2766	EPA 8082	GCSV/1944
408719001	**BL-IH-W2-G, 9/5/08**	Pace Lipid	OEXT/2778		
408719002	**BL-IH-W3-G, 9/5/08**	Pace Lipid	OEXT/2778		
408719003	**BL-UR1-AC5-G, 9/6/08**	Pace Lipid	OEXT/2778		
408719004	**BL-UR1-AC6-G, 9/6/08**	Pace Lipid	OEXT/2778		
408719005	**BL-UR1-AC7-G, 9/6/08**	Pace Lipid	OEXT/2778		
408719006	**BL-UR1-AC8-G, 9/6/08**	Pace Lipid	OEXT/2778		
408719007	**BL-UR1-AC9-G, 9/6/08**	Pace Lipid	OEXT/2778		
408719008	**BL-UR1-AC10-G, 9/6/08**	Pace Lipid	OEXT/2778		
408719009	**BL-UR1-AC11-G, 9/6/08**	Pace Lipid	OEXT/2778		
408719010	**BL-UR1-AC12-G, 9/6/08**	Pace Lipid	OEXT/2778		
408719011	**BL-UR1-AC13-G, 9/6/08**	Pace Lipid	OEXT/2778		
408719012	**BL-UR1-AC14-G, 9/6/08**	Pace Lipid	OEXT/2778		
408719013	**BL-UR1-AC15-G, 9/6/08**	Pace Lipid	OEXT/2778		
408719014	**BL-UR1-AC16-G, 9/6/08**	Pace Lipid	OEXT/2778		
408719015	**BL-UR1-AWS5-G, 9/6/08**	Pace Lipid	OEXT/2778		
408719016	**BL-UR1-AWS6-G, 9/6/08**	Pace Lipid	OEXT/2778		
408719017	**BL-UR1-AWS7-G, 9/6/08**	Pace Lipid	OEXT/2778		
408719018	**BL-UR1-AWS8-G, 9/6/08**	Pace Lipid	OEXT/2778		
408719019	**BL-UR2-AC5-G, 9/6/08**	Pace Lipid	OEXT/2778		
408719020	**BL-UR2-AC6-G, 9/6/08**	Pace Lipid	OEXT/2778		

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October 17, 2008

BRANDY PROFFITT
POLLUTION RISK SERVICES
7870 EAST KEMPER ROAD
SUITE 240
Cincinnati, OH 45249

RE: Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 408210

Dear BRANDY PROFFITT:
Enclosed are the analytical results for sample(s) received by the laboratory on August 26, 2008. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Tod Noltemeyer

Tod Noltemeyer

tod.noltemeyer@pacelabs.com
Project Manager

Enclosures

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CERTIFICATIONS

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 408210

Green Bay Certification IDs

Louisiana Certification #: 04169
Louisiana Certification #: 04168
Kentucky Certification #: 83
Kentucky Certification #: 82
Wisconsin DATCP Certification #: 105-444
Wisconsin DATCP Certification #: 105-444
Wisconsin Certification #: 405132750
Wisconsin Certification #: 405132750
South Carolina Certification #: 83006001
South Carolina Certification #: 83006001
Minnesota Certification #: 055-999-334
Minnesota Certification #: 055-999-334
North Carolina Certification #: 503
North Carolina Certification #: 503
North Dakota Certification #: R-200
North Dakota Certification #: R-150
New York Certification #: 11888
New York Certification #: 11887
Illinois Certification #: 200051
Illinois Certification #: 200050
Florida (NELAP) Certification #: E87951
Florida (NELAP) Certification #: E87948

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SAMPLE SUMMARY

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 408210

Lab ID	Sample ID	Matrix	Date Collected	Date Received
408210001	BL-UR1-AC2-G,8/18/08	Tissue	08/18/08 00:00	08/26/08 15:30
408210002	BL-UR1-AC4-G, 8/18/08	Tissue	08/18/08 00:00	08/26/08 15:30
408210003	BL-UR1-AC3-G, 8/18/08	Tissue	08/18/08 00:00	08/26/08 15:30
408210004	BL-UR1-AWS1-G, 8/18/08	Tissue	08/18/08 00:00	08/26/08 15:30
408210005	BL-UR1-AWS2-G, 8/18/08	Tissue	08/18/08 00:00	08/26/08 15:30
408210006	BL-UR1-SB1-G, 8/18/08	Tissue	08/18/08 00:00	08/26/08 15:30
408210007	BL-UR1-SB2-G, 8/18/08	Tissue	08/18/08 00:00	08/26/08 15:30
408210008	BL-UR1-AC1-G, 8/19/08	Tissue	08/19/08 00:00	08/26/08 15:30
408210009	BL-UR1-JWS1-G, 8/19/08	Tissue	08/19/08 00:00	08/26/08 15:30
408210010	BL-UR1-AWS4-G, 8/19/08	Tissue	08/19/08 00:00	08/26/08 15:30
408210011	BL-UR1-AWS3-G, 8/19/08	Tissue	08/19/08 00:00	08/26/08 15:30
408210012	BL-UR1-JWS4-G, 8/19/08	Tissue	08/19/08 00:00	08/26/08 15:30
408210013	BL-UR1-SB3-G, 8/19/08	Tissue	08/19/08 00:00	08/26/08 15:30
408210014	BL-UR1-SB4-G, 8/19/08	Tissue	08/19/08 00:00	08/26/08 15:30
408210015	BL-UR1-SB5-G, 8/19/08	Tissue	08/19/08 00:00	08/26/08 15:30
408210016	BL-UR1-SB6-G, 8/19/08	Tissue	08/19/08 00:00	08/26/08 15:30
408210017	BL-UR1-SB7-G, 8/19/08	Tissue	08/19/08 00:00	08/26/08 15:30
408210018	BL-UR1-SB8-G, 8/19/08	Tissue	08/19/08 00:00	08/26/08 15:30
408210019	BL-UR1-RB1-G, 8/19/08	Tissue	08/19/08 00:00	08/26/08 15:30
408210020	BL-UR1-JWS2-G, 8/19/08	Tissue	08/19/08 00:00	08/26/08 15:30

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SAMPLE ANALYTE COUNT

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 408210

Lab ID	Sample ID	Method	Analysts	Analytes Reported
408210001	BL-UR1-AC2-G,8/18/08	EPA 8082	CAH	10
		Pace Lipid	DAL	1
408210002	BL-UR1-AC4-G, 8/18/08	EPA 8082	CAH	10
		Pace Lipid	DAL	1
408210003	BL-UR1-AC3-G, 8/18/08	EPA 8082	CAH	10
		Pace Lipid	DAL	1
408210004	BL-UR1-AWS1-G, 8/18/08	EPA 8082	CAH	10
		Pace Lipid	DAL	1
408210005	BL-UR1-AWS2-G, 8/18/08	EPA 8082	CAH	10
		Pace Lipid	DAL	1
408210006	BL-UR1-SB1-G, 8/18/08	EPA 8082	CAH	10
		Pace Lipid	DAL	1
408210007	BL-UR1-SB2-G, 8/18/08	EPA 8082	CAH	10
		Pace Lipid	DAL	1
408210008	BL-UR1-AC1-G, 8/19/08	EPA 8082	CAH	10
		Pace Lipid	DAL	1
408210009	BL-UR1-JWS1-G, 8/19/08	EPA 8082	CAH	10
		Pace Lipid	DAL	1
408210010	BL-UR1-AWS4-G, 8/19/08	EPA 8082	CAH	10
		Pace Lipid	DAL	1
408210011	BL-UR1-AWS3-G, 8/19/08	EPA 8082	CAH	10
		Pace Lipid	DAL	1
408210012	BL-UR1-JWS4-G, 8/19/08	EPA 8082	CAH	10
		Pace Lipid	DAL	1
408210013	BL-UR1-SB3-G, 8/19/08	EPA 8082	CAH	10
		Pace Lipid	DAL	1
408210014	BL-UR1-SB4-G, 8/19/08	EPA 8082	CAH	10
		Pace Lipid	DAL	1
408210015	BL-UR1-SB5-G, 8/19/08	EPA 8082	CAH	10
		Pace Lipid	DAL	1
408210016	BL-UR1-SB6-G, 8/19/08	EPA 8082	CAH	10
		Pace Lipid	DAL	1
408210017	BL-UR1-SB7-G, 8/19/08	EPA 8082	CAH	10
		Pace Lipid	DAL	1
408210018	BL-UR1-SB8-G, 8/19/08	EPA 8082	CAH	10
		Pace Lipid	DAL	1
408210019	BL-UR1-RB1-G, 8/19/08	EPA 8082	CAH	10

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SAMPLE ANALYTE COUNT

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 408210

Lab ID	Sample ID	Method	Analysts	Analytes Reported
		Pace Lipid	DAL	1
408210020	**BL-UR1-JWS2-G, 8/19/08**	EPA 8082	CAH	10
		Pace Lipid	DAL	1

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PROJECT NARRATIVE

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 408210

Method: **EPA 8082**
Description: 8082 GCS PCBs, Tissue
Client: POLLUTION RISK SERVICES
Date: October 17, 2008

General Information:
20 samples were analyzed for EPA 8082. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 3540 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

QC Batch: OEXT/2721

S4: Surrogate recovery not evaluated against control limits due to sample dilution.

- BL-UR1-AC1-G, 8/19/08 (Lab ID: 408210008)
  - Decachlorobiphenyl (S)
  - Tetrachloro-m-xylene (S)
- BL-UR1-AC2-G,8/18/08 (Lab ID: 408210001)
  - Decachlorobiphenyl (S)
  - Tetrachloro-m-xylene (S)
- BL-UR1-AC4-G, 8/18/08 (Lab ID: 408210002)
  - Decachlorobiphenyl (S)
  - Tetrachloro-m-xylene (S)
- BL-UR1-AWS1-G, 8/18/08 (Lab ID: 408210004)
  - Decachlorobiphenyl (S)
  - Tetrachloro-m-xylene (S)
- BL-UR1-AWS2-G, 8/18/08 (Lab ID: 408210005)
  - Decachlorobiphenyl (S)
  - Tetrachloro-m-xylene (S)
- BL-UR1-AWS3-G, 8/19/08 (Lab ID: 408210011)
  - Decachlorobiphenyl (S)
  - Tetrachloro-m-xylene (S)
- BL-UR1-AWS4-G, 8/19/08 (Lab ID: 408210010)
  - Decachlorobiphenyl (S)
  - Tetrachloro-m-xylene (S)
- BL-UR1-JWS1-G, 8/19/08 (Lab ID: 408210009)
  - Decachlorobiphenyl (S)
  - Tetrachloro-m-xylene (S)
- BL-UR1-JWS2-G, 8/19/08 (Lab ID: 408210020)

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PROJECT NARRATIVE

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 408210

Method: **EPA 8082**
Description: 8082 GCS PCBs, Tissue
Client: POLLUTION RISK SERVICES
Date: October 17, 2008

QC Batch: OEXT/2721

S4: Surrogate recovery not evaluated against control limits due to sample dilution.

- Decachlorobiphenyl (S)
- Tetrachloro-m-xylene (S)
- BL-UR1-RB1-G, 8/19/08 (Lab ID: 408210019)
  - Decachlorobiphenyl (S)
  - Tetrachloro-m-xylene (S)
- BL-UR1-SB1-G, 8/18/08 (Lab ID: 408210006)
  - Decachlorobiphenyl (S)
  - Tetrachloro-m-xylene (S)
- BL-UR1-SB2-G, 8/18/08 (Lab ID: 408210007)
  - Decachlorobiphenyl (S)
  - Tetrachloro-m-xylene (S)
- BL-UR1-SB3-G, 8/19/08 (Lab ID: 408210013)
  - Decachlorobiphenyl (S)
  - Tetrachloro-m-xylene (S)
- BL-UR1-SB4-G, 8/19/08 (Lab ID: 408210014)
  - Decachlorobiphenyl (S)
  - Tetrachloro-m-xylene (S)
- BL-UR1-SB5-G, 8/19/08 (Lab ID: 408210015)
  - Decachlorobiphenyl (S)
  - Tetrachloro-m-xylene (S)
- BL-UR1-SB6-G, 8/19/08 (Lab ID: 408210016)
  - Decachlorobiphenyl (S)
  - Tetrachloro-m-xylene (S)
- BL-UR1-SB7-G, 8/19/08 (Lab ID: 408210017)
  - Decachlorobiphenyl (S)
  - Tetrachloro-m-xylene (S)
- BL-UR1-SB8-G, 8/19/08 (Lab ID: 408210018)
  - Decachlorobiphenyl (S)
  - Tetrachloro-m-xylene (S)
- MS (Lab ID: 79343)
  - Decachlorobiphenyl (S)
  - Tetrachloro-m-xylene (S)
- MSD (Lab ID: 79344)
  - Decachlorobiphenyl (S)
  - Tetrachloro-m-xylene (S)

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

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PROJECT NARRATIVE

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 408210

Method: **EPA 8082**
Description: 8082 GCS PCBs, Tissue
Client: POLLUTION RISK SERVICES
Date: October 17, 2008

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 408210

Method: **Pace Lipid**
Description: Lipid
Client: POLLUTION RISK SERVICES
Date: October 17, 2008

General Information:
20 samples were analyzed for Pace Lipid. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

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ANALYTICAL RESULTS

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 408210

Sample: BL-UR1-AC2-G,8/18/08 **Lab ID: 408210001** Collected: 08/18/08 00:00 Received: 08/26/08 15:30 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCBs, Tissue	Analytical Method: EPA 8082 Preparation Method: EPA 3540								
PCB-1016 (Aroclor 1016)	**<9500**	ug/kg	25000	9500	500	09/21/08 15:38	09/29/08 18:52	12674-11-2	
PCB-1221 (Aroclor 1221)	**<9500**	ug/kg	25000	9500	500	09/21/08 15:38	09/29/08 18:52	11104-28-2	
PCB-1232 (Aroclor 1232)	**<9500**	ug/kg	25000	9500	500	09/21/08 15:38	09/29/08 18:52	11141-16-5	
PCB-1242 (Aroclor 1242)	**<9500**	ug/kg	25000	9500	500	09/21/08 15:38	09/29/08 18:52	53469-21-9	
PCB-1248 (Aroclor 1248)	**47300**	ug/kg	25000	9500	500	09/21/08 15:38	09/29/08 18:52	12672-29-6	
PCB-1254 (Aroclor 1254)	**25800**	ug/kg	25000	9500	500	09/21/08 15:38	09/29/08 18:52	11097-69-1	
PCB-1260 (Aroclor 1260)	**<9500**	ug/kg	25000	9500	500	09/21/08 15:38	09/29/08 18:52	11096-82-5	
PCB, Total	**73100**	ug/kg	25000	9500	500	09/21/08 15:38	09/29/08 18:52	1336-36-3	
Tetrachloro-m-xylene (S)	0	%	40-136		500	09/21/08 15:38	09/29/08 18:52	877-09-8	S4
Decachlorobiphenyl (S)	0	%	47-145		500	09/21/08 15:38	09/29/08 18:52	2051-24-3	S4
Lipid	Analytical Method: Pace Lipid								
Lipid	**1.3**	%		0.10	1		09/24/08 07:23		

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ANALYTICAL RESULTS

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 408210

Sample: BL-UR1-AC4-G, 8/18/08 **Lab ID: 408210002** Collected: 08/18/08 00:00 Received: 08/26/08 15:30 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCBs, Tissue	Analytical Method: EPA 8082 Preparation Method: EPA 3540								
PCB-1016 (Aroclor 1016)	**<380**	ug/kg	1000	380	20	09/21/08 15:38	09/29/08 19:18	12674-11-2	
PCB-1221 (Aroclor 1221)	**<380**	ug/kg	1000	380	20	09/21/08 15:38	09/29/08 19:18	11104-28-2	
PCB-1232 (Aroclor 1232)	**<380**	ug/kg	1000	380	20	09/21/08 15:38	09/29/08 19:18	11141-16-5	
PCB-1242 (Aroclor 1242)	**<380**	ug/kg	1000	380	20	09/21/08 15:38	09/29/08 19:18	53469-21-9	
PCB-1248 (Aroclor 1248)	**5340**	ug/kg	1000	380	20	09/21/08 15:38	09/29/08 19:18	12672-29-6	
PCB-1254 (Aroclor 1254)	**2110**	ug/kg	1000	380	20	09/21/08 15:38	09/29/08 19:18	11097-69-1	
PCB-1260 (Aroclor 1260)	**<380**	ug/kg	1000	380	20	09/21/08 15:38	09/29/08 19:18	11096-82-5	
PCB, Total	**7440**	ug/kg	1000	380	20	09/21/08 15:38	09/29/08 19:18	1336-36-3	
Tetrachloro-m-xylene (S)	0	%	40-136		20	09/21/08 15:38	09/29/08 19:18	877-09-8	S4
Decachlorobiphenyl (S)	0	%	47-145		20	09/21/08 15:38	09/29/08 19:18	2051-24-3	S4
Lipid	Analytical Method: Pace Lipid								
Lipid	**4.4**	%		0.10	1		09/24/08 07:23		

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ANALYTICAL RESULTS

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 408210

Sample: BL-UR1-AC3-G, 8/18/08 **Lab ID: 408210003** Collected: 08/18/08 00:00 Received: 08/26/08 15:30 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCBs, Tissue	Analytical Method: EPA 8082 Preparation Method: EPA 3540								
PCB-1016 (Aroclor 1016)	**<95.0**	ug/kg	250	95.0	5	09/21/08 15:38	09/29/08 19:44	12674-11-2	
PCB-1221 (Aroclor 1221)	**<95.0**	ug/kg	250	95.0	5	09/21/08 15:38	09/29/08 19:44	11104-28-2	
PCB-1232 (Aroclor 1232)	**<95.0**	ug/kg	250	95.0	5	09/21/08 15:38	09/29/08 19:44	11141-16-5	
PCB-1242 (Aroclor 1242)	**<95.0**	ug/kg	250	95.0	5	09/21/08 15:38	09/29/08 19:44	53469-21-9	
PCB-1248 (Aroclor 1248)	**915**	ug/kg	250	95.0	5	09/21/08 15:38	09/29/08 19:44	12672-29-6	
PCB-1254 (Aroclor 1254)	**597**	ug/kg	250	95.0	5	09/21/08 15:38	09/29/08 19:44	11097-69-1	
PCB-1260 (Aroclor 1260)	**121J**	ug/kg	250	95.0	5	09/21/08 15:38	09/29/08 19:44	11096-82-5	
PCB, Total	**1630**	ug/kg	250	95.0	5	09/21/08 15:38	09/29/08 19:44	1336-36-3	
Tetrachloro-m-xylene (S)	89	%	40-136		5	09/21/08 15:38	09/29/08 19:44	877-09-8	
Decachlorobiphenyl (S)	101	%	47-145		5	09/21/08 15:38	09/29/08 19:44	2051-24-3	
Lipid	Analytical Method: Pace Lipid								
Lipid	**4.8**	%		0.10	1		09/24/08 07:24		

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ANALYTICAL RESULTS

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 408210

Sample: BL-UR1-AWS1-G, 8/18/08 **Lab ID: 408210004** Collected: 08/18/08 00:00 Received: 08/26/08 15:30 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCBs, Tissue	Analytical Method: EPA 8082 Preparation Method: EPA 3540								
PCB-1016 (Aroclor 1016)	**<950**	ug/kg	2500	950	50	09/21/08 15:38	09/29/08 20:09	12674-11-2	
PCB-1221 (Aroclor 1221)	**<950**	ug/kg	2500	950	50	09/21/08 15:38	09/29/08 20:09	11104-28-2	
PCB-1232 (Aroclor 1232)	**<950**	ug/kg	2500	950	50	09/21/08 15:38	09/29/08 20:09	11141-16-5	
PCB-1242 (Aroclor 1242)	**<950**	ug/kg	2500	950	50	09/21/08 15:38	09/29/08 20:09	53469-21-9	
PCB-1248 (Aroclor 1248)	**9800**	ug/kg	2500	950	50	09/21/08 15:38	09/29/08 20:09	12672-29-6	
PCB-1254 (Aroclor 1254)	**6070**	ug/kg	2500	950	50	09/21/08 15:38	09/29/08 20:09	11097-69-1	
PCB-1260 (Aroclor 1260)	**<950**	ug/kg	2500	950	50	09/21/08 15:38	09/29/08 20:09	11096-82-5	
PCB, Total	**15900**	ug/kg	2500	950	50	09/21/08 15:38	09/29/08 20:09	1336-36-3	
Tetrachloro-m-xylene (S)	0	%	40-136		50	09/21/08 15:38	09/29/08 20:09	877-09-8	S4
Decachlorobiphenyl (S)	0	%	47-145		50	09/21/08 15:38	09/29/08 20:09	2051-24-3	S4
Lipid	Analytical Method: Pace Lipid								
Lipid	**1.4**	%		0.10	1		09/24/08 07:24		

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ANALYTICAL RESULTS

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 408210

Sample: BL-UR1-AWS2-G, 8/18/08 **Lab ID: 408210005** Collected: 08/18/08 00:00 Received: 08/26/08 15:30 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCBs, Tissue	Analytical Method: EPA 8082 Preparation Method: EPA 3540								
PCB-1016 (Aroclor 1016)	**<1900**	ug/kg	5000	1900	100	09/21/08 15:38	09/29/08 20:35	12674-11-2	
PCB-1221 (Aroclor 1221)	**<1900**	ug/kg	5000	1900	100	09/21/08 15:38	09/29/08 20:35	11104-28-2	
PCB-1232 (Aroclor 1232)	**<1900**	ug/kg	5000	1900	100	09/21/08 15:38	09/29/08 20:35	11141-16-5	
PCB-1242 (Aroclor 1242)	**<1900**	ug/kg	5000	1900	100	09/21/08 15:38	09/29/08 20:35	53469-21-9	
PCB-1248 (Aroclor 1248)	**10500**	ug/kg	5000	1900	100	09/21/08 15:38	09/29/08 20:35	12672-29-6	
PCB-1254 (Aroclor 1254)	**6020**	ug/kg	5000	1900	100	09/21/08 15:38	09/29/08 20:35	11097-69-1	
PCB-1260 (Aroclor 1260)	**<1900**	ug/kg	5000	1900	100	09/21/08 15:38	09/29/08 20:35	11096-82-5	
PCB, Total	**16600**	ug/kg	5000	1900	100	09/21/08 15:38	09/29/08 20:35	1336-36-3	
Tetrachloro-m-xylene (S)	0	%	40-136		100	09/21/08 15:38	09/29/08 20:35	877-09-8	S4
Decachlorobiphenyl (S)	0	%	47-145		100	09/21/08 15:38	09/29/08 20:35	2051-24-3	S4
Lipid	Analytical Method: Pace Lipid								
Lipid	**1.3**	%		0.10	1		09/24/08 07:25		

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ANALYTICAL RESULTS

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 408210

Sample: BL-UR1-SB1-G, 8/18/08 **Lab ID: 408210006** Collected: 08/18/08 00:00 Received: 08/26/08 15:30 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCBs, Tissue	Analytical Method: EPA 8082 Preparation Method: EPA 3540								
PCB-1016 (Aroclor 1016)	**<1900**	ug/kg	5000	1900	100	09/21/08 15:38	09/29/08 21:01	12674-11-2	
PCB-1221 (Aroclor 1221)	**<1900**	ug/kg	5000	1900	100	09/21/08 15:38	09/29/08 21:01	11104-28-2	
PCB-1232 (Aroclor 1232)	**<1900**	ug/kg	5000	1900	100	09/21/08 15:38	09/29/08 21:01	11141-16-5	
PCB-1242 (Aroclor 1242)	**<1900**	ug/kg	5000	1900	100	09/21/08 15:38	09/29/08 21:01	53469-21-9	
PCB-1248 (Aroclor 1248)	**8160**	ug/kg	5000	1900	100	09/21/08 15:38	09/29/08 21:01	12672-29-6	
PCB-1254 (Aroclor 1254)	**10400**	ug/kg	5000	1900	100	09/21/08 15:38	09/29/08 21:01	11097-69-1	
PCB-1260 (Aroclor 1260)	**<1900**	ug/kg	5000	1900	100	09/21/08 15:38	09/29/08 21:01	11096-82-5	
PCB, Total	**18600**	ug/kg	5000	1900	100	09/21/08 15:38	09/29/08 21:01	1336-36-3	
Tetrachloro-m-xylene (S)	0	%	40-136		100	09/21/08 15:38	09/29/08 21:01	877-09-8	S4
Decachlorobiphenyl (S)	0	%	47-145		100	09/21/08 15:38	09/29/08 21:01	2051-24-3	S4
Lipid	Analytical Method: Pace Lipid								
Lipid	**0.62**	%		0.10	1		09/24/08 07:25		

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ANALYTICAL RESULTS

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 408210

Sample: BL-UR1-SB2-G, 8/18/08 **Lab ID: 408210007** Collected: 08/18/08 00:00 Received: 08/26/08 15:30 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCBs, Tissue	Analytical Method: EPA 8082 Preparation Method: EPA 3540								
PCB-1016 (Aroclor 1016)	**<1900**	ug/kg	5000	1900	100	09/21/08 15:38	09/29/08 21:27	12674-11-2	
PCB-1221 (Aroclor 1221)	**<1900**	ug/kg	5000	1900	100	09/21/08 15:38	09/29/08 21:27	11104-28-2	
PCB-1232 (Aroclor 1232)	**<1900**	ug/kg	5000	1900	100	09/21/08 15:38	09/29/08 21:27	11141-16-5	
PCB-1242 (Aroclor 1242)	**<1900**	ug/kg	5000	1900	100	09/21/08 15:38	09/29/08 21:27	53469-21-9	
PCB-1248 (Aroclor 1248)	**10600**	ug/kg	5000	1900	100	09/21/08 15:38	09/29/08 21:27	12672-29-6	
PCB-1254 (Aroclor 1254)	**10900**	ug/kg	5000	1900	100	09/21/08 15:38	09/29/08 21:27	11097-69-1	
PCB-1260 (Aroclor 1260)	**<1900**	ug/kg	5000	1900	100	09/21/08 15:38	09/29/08 21:27	11096-82-5	
PCB, Total	**21500**	ug/kg	5000	1900	100	09/21/08 15:38	09/29/08 21:27	1336-36-3	
Tetrachloro-m-xylene (S)	0	%	40-136		100	09/21/08 15:38	09/29/08 21:27	877-09-8	S4
Decachlorobiphenyl (S)	0	%	47-145		100	09/21/08 15:38	09/29/08 21:27	2051-24-3	S4
Lipid	Analytical Method: Pace Lipid								
Lipid	**0.40**	%		0.10	1		09/24/08 07:25		

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ANALYTICAL RESULTS

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 408210

Sample: BL-UR1-AC1-G, 8/19/08 **Lab ID: 408210008** Collected: 08/19/08 00:00 Received: 08/26/08 15:30 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCBs, Tissue	Analytical Method: EPA 8082 Preparation Method: EPA 3540								
PCB-1016 (Aroclor 1016)	**<3800**	ug/kg	10000	3800	200	09/21/08 15:38	09/29/08 21:52	12674-11-2	
PCB-1221 (Aroclor 1221)	**<3800**	ug/kg	10000	3800	200	09/21/08 15:38	09/29/08 21:52	11104-28-2	
PCB-1232 (Aroclor 1232)	**<3800**	ug/kg	10000	3800	200	09/21/08 15:38	09/29/08 21:52	11141-16-5	
PCB-1242 (Aroclor 1242)	**<3800**	ug/kg	10000	3800	200	09/21/08 15:38	09/29/08 21:52	53469-21-9	
PCB-1248 (Aroclor 1248)	**23500**	ug/kg	10000	3800	200	09/21/08 15:38	09/29/08 21:52	12672-29-6	
PCB-1254 (Aroclor 1254)	**13500**	ug/kg	10000	3800	200	09/21/08 15:38	09/29/08 21:52	11097-69-1	
PCB-1260 (Aroclor 1260)	**<3800**	ug/kg	10000	3800	200	09/21/08 15:38	09/29/08 21:52	11096-82-5	
PCB, Total	**37000**	ug/kg	10000	3800	200	09/21/08 15:38	09/29/08 21:52	1336-36-3	
Tetrachloro-m-xylene (S)	0	%	40-136		200	09/21/08 15:38	09/29/08 21:52	877-09-8	S4
Decachlorobiphenyl (S)	0	%	47-145		200	09/21/08 15:38	09/29/08 21:52	2051-24-3	S4
Lipid	Analytical Method: Pace Lipid								
Lipid	**4.6**	%		0.10	1		09/24/08 07:25		

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ANALYTICAL RESULTS

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 408210

Sample: BL-UR1-JWS1-G, 8/19/08 **Lab ID: 408210009** Collected: 08/19/08 00:00 Received: 08/26/08 15:30 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCBs, Tissue	Analytical Method: EPA 8082 Preparation Method: EPA 3540								
PCB-1016 (Aroclor 1016)	**<715**	ug/kg	1880	715	20	09/21/08 15:38	09/29/08 23:10	12674-11-2	
PCB-1221 (Aroclor 1221)	**<715**	ug/kg	1880	715	20	09/21/08 15:38	09/29/08 23:10	11104-28-2	
PCB-1232 (Aroclor 1232)	**<715**	ug/kg	1880	715	20	09/21/08 15:38	09/29/08 23:10	11141-16-5	
PCB-1242 (Aroclor 1242)	**<715**	ug/kg	1880	715	20	09/21/08 15:38	09/29/08 23:10	53469-21-9	
PCB-1248 (Aroclor 1248)	**3950**	ug/kg	1880	715	20	09/21/08 15:38	09/29/08 23:10	12672-29-6	
PCB-1254 (Aroclor 1254)	**5770**	ug/kg	1880	715	20	09/21/08 15:38	09/29/08 23:10	11097-69-1	
PCB-1260 (Aroclor 1260)	**<715**	ug/kg	1880	715	20	09/21/08 15:38	09/29/08 23:10	11096-82-5	
PCB, Total	**9710**	ug/kg	1880	715	20	09/21/08 15:38	09/29/08 23:10	1336-36-3	
Tetrachloro-m-xylene (S)	0	%	40-136		20	09/21/08 15:38	09/29/08 23:10	877-09-8	S4
Decachlorobiphenyl (S)	0	%	47-145		20	09/21/08 15:38	09/29/08 23:10	2051-24-3	S4
Lipid	Analytical Method: Pace Lipid								
Lipid	**0.15**	%		0.10	1		09/24/08 07:26		

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ANALYTICAL RESULTS

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 408210

Sample: BL-UR1-AWS4-G, 8/19/08 **Lab ID: 408210010** Collected: 08/19/08 00:00 Received: 08/26/08 15:30 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCBs, Tissue	Analytical Method: EPA 8082 Preparation Method: EPA 3540								
PCB-1016 (Aroclor 1016)	**<1900**	ug/kg	5000	1900	100	09/21/08 15:38	09/29/08 23:35	12674-11-2	
PCB-1221 (Aroclor 1221)	**<1900**	ug/kg	5000	1900	100	09/21/08 15:38	09/29/08 23:35	11104-28-2	
PCB-1232 (Aroclor 1232)	**<1900**	ug/kg	5000	1900	100	09/21/08 15:38	09/29/08 23:35	11141-16-5	
PCB-1242 (Aroclor 1242)	**<1900**	ug/kg	5000	1900	100	09/21/08 15:38	09/29/08 23:35	53469-21-9	
PCB-1248 (Aroclor 1248)	**12000**	ug/kg	5000	1900	100	09/21/08 15:38	09/29/08 23:35	12672-29-6	
PCB-1254 (Aroclor 1254)	**8670**	ug/kg	5000	1900	100	09/21/08 15:38	09/29/08 23:35	11097-69-1	
PCB-1260 (Aroclor 1260)	**<1900**	ug/kg	5000	1900	100	09/21/08 15:38	09/29/08 23:35	11096-82-5	
PCB, Total	**20600**	ug/kg	5000	1900	100	09/21/08 15:38	09/29/08 23:35	1336-36-3	
Tetrachloro-m-xylene (S)	0	%	40-136		100	09/21/08 15:38	09/29/08 23:35	877-09-8	S4
Decachlorobiphenyl (S)	0	%	47-145		100	09/21/08 15:38	09/29/08 23:35	2051-24-3	S4
Lipid	Analytical Method: Pace Lipid								
Lipid	**1.5**	%		0.10	1		09/24/08 07:26		

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ANALYTICAL RESULTS

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 408210

Sample: BL-UR1-AWS3-G, 8/19/08 **Lab ID: 408210011** Collected: 08/19/08 00:00 Received: 08/26/08 15:30 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCBs, Tissue	Analytical Method: EPA 8082 Preparation Method: EPA 3540								
PCB-1016 (Aroclor 1016)	**<950**	ug/kg	2500	950	50	09/21/08 15:38	09/30/08 00:01	12674-11-2	
PCB-1221 (Aroclor 1221)	**<950**	ug/kg	2500	950	50	09/21/08 15:38	09/30/08 00:01	11104-28-2	
PCB-1232 (Aroclor 1232)	**<950**	ug/kg	2500	950	50	09/21/08 15:38	09/30/08 00:01	11141-16-5	
PCB-1242 (Aroclor 1242)	**<950**	ug/kg	2500	950	50	09/21/08 15:38	09/30/08 00:01	53469-21-9	
PCB-1248 (Aroclor 1248)	**5050**	ug/kg	2500	950	50	09/21/08 15:38	09/30/08 00:01	12672-29-6	
PCB-1254 (Aroclor 1254)	**5260**	ug/kg	2500	950	50	09/21/08 15:38	09/30/08 00:01	11097-69-1	
PCB-1260 (Aroclor 1260)	**<950**	ug/kg	2500	950	50	09/21/08 15:38	09/30/08 00:01	11096-82-5	
PCB, Total	**10300**	ug/kg	2500	950	50	09/21/08 15:38	09/30/08 00:01	1336-36-3	
Tetrachloro-m-xylene (S)	0	%	40-136		50	09/21/08 15:38	09/30/08 00:01	877-09-8	S4
Decachlorobiphenyl (S)	0	%	47-145		50	09/21/08 15:38	09/30/08 00:01	2051-24-3	S4
Lipid	Analytical Method: Pace Lipid								
Lipid	**0.56**	%		0.10	1		09/24/08 07:26		

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ANALYTICAL RESULTS

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 408210

Sample: BL-UR1-JWS4-G, 8/19/08 **Lab ID: 408210012** Collected: 08/19/08 00:00 Received: 08/26/08 15:30 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCBs, Tissue	Analytical Method: EPA 8082 Preparation Method: EPA 3540								
PCB-1016 (Aroclor 1016)	**<236**	ug/kg	621	236	4	09/21/08 15:38	09/30/08 00:26	12674-11-2	
PCB-1221 (Aroclor 1221)	**<236**	ug/kg	621	236	4	09/21/08 15:38	09/30/08 00:26	11104-28-2	
PCB-1232 (Aroclor 1232)	**<236**	ug/kg	621	236	4	09/21/08 15:38	09/30/08 00:26	11141-16-5	
PCB-1242 (Aroclor 1242)	**<236**	ug/kg	621	236	4	09/21/08 15:38	09/30/08 00:26	53469-21-9	
PCB-1248 (Aroclor 1248)	**2180**	ug/kg	621	236	4	09/21/08 15:38	09/30/08 00:26	12672-29-6	
PCB-1254 (Aroclor 1254)	**2410**	ug/kg	621	236	4	09/21/08 15:38	09/30/08 00:26	11097-69-1	
PCB-1260 (Aroclor 1260)	**263J**	ug/kg	621	236	4	09/21/08 15:38	09/30/08 00:26	11096-82-5	
PCB, Total	**4850**	ug/kg	621	236	4	09/21/08 15:38	09/30/08 00:26	1336-36-3	
Tetrachloro-m-xylene (S)	87	%	40-136		4	09/21/08 15:38	09/30/08 00:26	877-09-8	
Decachlorobiphenyl (S)	104	%	47-145		4	09/21/08 15:38	09/30/08 00:26	2051-24-3	
Lipid	Analytical Method: Pace Lipid								
Lipid	**0.25**	%		0.10	1		09/24/08 07:26		

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ANALYTICAL RESULTS

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 408210

Sample: BL-UR1-SB3-G, 8/19/08 **Lab ID: 408210013** Collected: 08/19/08 00:00 Received: 08/26/08 15:30 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCBs, Tissue	Analytical Method: EPA 8082 Preparation Method: EPA 3540								
PCB-1016 (Aroclor 1016)	**<950**	ug/kg	2500	950	50	09/21/08 15:38	09/30/08 00:52	12674-11-2	
PCB-1221 (Aroclor 1221)	**<950**	ug/kg	2500	950	50	09/21/08 15:38	09/30/08 00:52	11104-28-2	
PCB-1232 (Aroclor 1232)	**<950**	ug/kg	2500	950	50	09/21/08 15:38	09/30/08 00:52	11141-16-5	
PCB-1242 (Aroclor 1242)	**<950**	ug/kg	2500	950	50	09/21/08 15:38	09/30/08 00:52	53469-21-9	
PCB-1248 (Aroclor 1248)	**7700**	ug/kg	2500	950	50	09/21/08 15:38	09/30/08 00:52	12672-29-6	
PCB-1254 (Aroclor 1254)	**7490**	ug/kg	2500	950	50	09/21/08 15:38	09/30/08 00:52	11097-69-1	
PCB-1260 (Aroclor 1260)	**<950**	ug/kg	2500	950	50	09/21/08 15:38	09/30/08 00:52	11096-82-5	
PCB, Total	**15200**	ug/kg	2500	950	50	09/21/08 15:38	09/30/08 00:52	1336-36-3	
Tetrachloro-m-xylene (S)	0	%	40-136		50	09/21/08 15:38	09/30/08 00:52	877-09-8	S4
Decachlorobiphenyl (S)	0	%	47-145		50	09/21/08 15:38	09/30/08 00:52	2051-24-3	S4
Lipid	Analytical Method: Pace Lipid								
Lipid	**1.4**	%		0.10	1		09/24/08 07:26		

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ANALYTICAL RESULTS

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 408210

Sample: BL-UR1-SB4-G, 8/19/08 **Lab ID: 408210014** Collected: 08/19/08 00:00 Received: 08/26/08 15:30 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCBs, Tissue	Analytical Method: EPA 8082 Preparation Method: EPA 3540								
PCB-1016 (Aroclor 1016)	**<1900**	ug/kg	5000	1900	100	09/21/08 15:38	09/30/08 01:18	12674-11-2	
PCB-1221 (Aroclor 1221)	**<1900**	ug/kg	5000	1900	100	09/21/08 15:38	09/30/08 01:18	11104-28-2	
PCB-1232 (Aroclor 1232)	**<1900**	ug/kg	5000	1900	100	09/21/08 15:38	09/30/08 01:18	11141-16-5	
PCB-1242 (Aroclor 1242)	**<1900**	ug/kg	5000	1900	100	09/21/08 15:38	09/30/08 01:18	53469-21-9	
PCB-1248 (Aroclor 1248)	**9470**	ug/kg	5000	1900	100	09/21/08 15:38	09/30/08 01:18	12672-29-6	
PCB-1254 (Aroclor 1254)	**12700**	ug/kg	5000	1900	100	09/21/08 15:38	09/30/08 01:18	11097-69-1	
PCB-1260 (Aroclor 1260)	**<1900**	ug/kg	5000	1900	100	09/21/08 15:38	09/30/08 01:18	11096-82-5	
PCB, Total	**22200**	ug/kg	5000	1900	100	09/21/08 15:38	09/30/08 01:18	1336-36-3	
Tetrachloro-m-xylene (S)	0	%	40-136		100	09/21/08 15:38	09/30/08 01:18	877-09-8	S4
Decachlorobiphenyl (S)	0	%	47-145		100	09/21/08 15:38	09/30/08 01:18	2051-24-3	S4
Lipid	Analytical Method: Pace Lipid								
Lipid	**0.49**	%		0.10	1		09/24/08 07:27		

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ANALYTICAL RESULTS

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 408210

Sample: BL-UR1-SB5-G, 8/19/08 **Lab ID: 408210015** Collected: 08/19/08 00:00 Received: 08/26/08 15:30 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCBs, Tissue	Analytical Method: EPA 8082 Preparation Method: EPA 3540								
PCB-1016 (Aroclor 1016)	**<570**	ug/kg	1500	570	30	09/21/08 15:38	09/30/08 01:43	12674-11-2	
PCB-1221 (Aroclor 1221)	**<570**	ug/kg	1500	570	30	09/21/08 15:38	09/30/08 01:43	11104-28-2	
PCB-1232 (Aroclor 1232)	**<570**	ug/kg	1500	570	30	09/21/08 15:38	09/30/08 01:43	11141-16-5	
PCB-1242 (Aroclor 1242)	**<570**	ug/kg	1500	570	30	09/21/08 15:38	09/30/08 01:43	53469-21-9	
PCB-1248 (Aroclor 1248)	**3660**	ug/kg	1500	570	30	09/21/08 15:38	09/30/08 01:43	12672-29-6	
PCB-1254 (Aroclor 1254)	**3670**	ug/kg	1500	570	30	09/21/08 15:38	09/30/08 01:43	11097-69-1	
PCB-1260 (Aroclor 1260)	**<570**	ug/kg	1500	570	30	09/21/08 15:38	09/30/08 01:43	11096-82-5	
PCB, Total	**7330**	ug/kg	1500	570	30	09/21/08 15:38	09/30/08 01:43	1336-36-3	
Tetrachloro-m-xylene (S)	0	%	40-136		30	09/21/08 15:38	09/30/08 01:43	877-09-8	S4
Decachlorobiphenyl (S)	0	%	47-145		30	09/21/08 15:38	09/30/08 01:43	2051-24-3	S4
Lipid	Analytical Method: Pace Lipid								
Lipid	**0.70**	%		0.10	1		09/24/08 07:27		

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ANALYTICAL RESULTS

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 408210

Sample: BL-UR1-SB6-G, 8/19/08 **Lab ID: 408210016** Collected: 08/19/08 00:00 Received: 08/26/08 15:30 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCBs, Tissue	Analytical Method: EPA 8082 Preparation Method: EPA 3540								
PCB-1016 (Aroclor 1016)	**<570**	ug/kg	1500	570	30	09/21/08 15:38	09/30/08 02:09	12674-11-2	
PCB-1221 (Aroclor 1221)	**<570**	ug/kg	1500	570	30	09/21/08 15:38	09/30/08 02:09	11104-28-2	
PCB-1232 (Aroclor 1232)	**<570**	ug/kg	1500	570	30	09/21/08 15:38	09/30/08 02:09	11141-16-5	
PCB-1242 (Aroclor 1242)	**<570**	ug/kg	1500	570	30	09/21/08 15:38	09/30/08 02:09	53469-21-9	
PCB-1248 (Aroclor 1248)	**3010**	ug/kg	1500	570	30	09/21/08 15:38	09/30/08 02:09	12672-29-6	
PCB-1254 (Aroclor 1254)	**3130**	ug/kg	1500	570	30	09/21/08 15:38	09/30/08 02:09	11097-69-1	
PCB-1260 (Aroclor 1260)	**<570**	ug/kg	1500	570	30	09/21/08 15:38	09/30/08 02:09	11096-82-5	
PCB, Total	**6140**	ug/kg	1500	570	30	09/21/08 15:38	09/30/08 02:09	1336-36-3	
Tetrachloro-m-xylene (S)	0	%	40-136		30	09/21/08 15:38	09/30/08 02:09	877-09-8	S4
Decachlorobiphenyl (S)	0	%	47-145		30	09/21/08 15:38	09/30/08 02:09	2051-24-3	S4
Lipid	Analytical Method: Pace Lipid								
Lipid	**0.76**	%		0.10	1		09/24/08 07:27		

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ANALYTICAL RESULTS

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 408210

Sample: BL-UR1-SB7-G, 8/19/08 **Lab ID: 408210017** Collected: 08/19/08 00:00 Received: 08/26/08 15:30 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCBs, Tissue	Analytical Method: EPA 8082 Preparation Method: EPA 3540								
PCB-1016 (Aroclor 1016)	**<570**	ug/kg	1500	570	30	09/21/08 15:38	09/30/08 02:35	12674-11-2	
PCB-1221 (Aroclor 1221)	**<570**	ug/kg	1500	570	30	09/21/08 15:38	09/30/08 02:35	11104-28-2	
PCB-1232 (Aroclor 1232)	**<570**	ug/kg	1500	570	30	09/21/08 15:38	09/30/08 02:35	11141-16-5	
PCB-1242 (Aroclor 1242)	**<570**	ug/kg	1500	570	30	09/21/08 15:38	09/30/08 02:35	53469-21-9	
PCB-1248 (Aroclor 1248)	**4830**	ug/kg	1500	570	30	09/21/08 15:38	09/30/08 02:35	12672-29-6	
PCB-1254 (Aroclor 1254)	**3770**	ug/kg	1500	570	30	09/21/08 15:38	09/30/08 02:35	11097-69-1	
PCB-1260 (Aroclor 1260)	**<570**	ug/kg	1500	570	30	09/21/08 15:38	09/30/08 02:35	11096-82-5	
PCB, Total	**8590**	ug/kg	1500	570	30	09/21/08 15:38	09/30/08 02:35	1336-36-3	
Tetrachloro-m-xylene (S)	0	%	40-136		30	09/21/08 15:38	09/30/08 02:35	877-09-8	S4
Decachlorobiphenyl (S)	0	%	47-145		30	09/21/08 15:38	09/30/08 02:35	2051-24-3	S4
Lipid	Analytical Method: Pace Lipid								
Lipid	**1.2**	%		0.10	1		09/24/08 07:27		

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(920)469-2436

ANALYTICAL RESULTS

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 408210

Sample: BL-UR1-SB8-G, 8/19/08 **Lab ID: 408210018** Collected: 08/19/08 00:00 Received: 08/26/08 15:30 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCBs, Tissue	Analytical Method: EPA 8082 Preparation Method: EPA 3540								
PCB-1016 (Aroclor 1016)	**<380**	ug/kg	1000	380	20	09/21/08 15:38	09/30/08 03:00	12674-11-2	
PCB-1221 (Aroclor 1221)	**<380**	ug/kg	1000	380	20	09/21/08 15:38	09/30/08 03:00	11104-28-2	
PCB-1232 (Aroclor 1232)	**<380**	ug/kg	1000	380	20	09/21/08 15:38	09/30/08 03:00	11141-16-5	
PCB-1242 (Aroclor 1242)	**<380**	ug/kg	1000	380	20	09/21/08 15:38	09/30/08 03:00	53469-21-9	
PCB-1248 (Aroclor 1248)	**1470**	ug/kg	1000	380	20	09/21/08 15:38	09/30/08 03:00	12672-29-6	
PCB-1254 (Aroclor 1254)	**2620**	ug/kg	1000	380	20	09/21/08 15:38	09/30/08 03:00	11097-69-1	
PCB-1260 (Aroclor 1260)	**<380**	ug/kg	1000	380	20	09/21/08 15:38	09/30/08 03:00	11096-82-5	
PCB, Total	**4090**	ug/kg	1000	380	20	09/21/08 15:38	09/30/08 03:00	1336-36-3	
Tetrachloro-m-xylene (S)	0	%	40-136		20	09/21/08 15:38	09/30/08 03:00	877-09-8	S4
Decachlorobiphenyl (S)	0	%	47-145		20	09/21/08 15:38	09/30/08 03:00	2051-24-3	S4
Lipid	Analytical Method: Pace Lipid								
Lipid	**0.43**	%		0.10	1		09/24/08 07:28		

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ANALYTICAL RESULTS

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 408210

Sample: BL-UR1-RB1-G, 8/19/08 **Lab ID: 408210019** Collected: 08/19/08 00:00 Received: 08/26/08 15:30 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCBs, Tissue	Analytical Method: EPA 8082 Preparation Method: EPA 3540								
PCB-1016 (Aroclor 1016)	**<380**	ug/kg	1000	380	20	09/21/08 15:38	09/30/08 03:26	12674-11-2	
PCB-1221 (Aroclor 1221)	**<380**	ug/kg	1000	380	20	09/21/08 15:38	09/30/08 03:26	11104-28-2	
PCB-1232 (Aroclor 1232)	**<380**	ug/kg	1000	380	20	09/21/08 15:38	09/30/08 03:26	11141-16-5	
PCB-1242 (Aroclor 1242)	**<380**	ug/kg	1000	380	20	09/21/08 15:38	09/30/08 03:26	53469-21-9	
PCB-1248 (Aroclor 1248)	**3170**	ug/kg	1000	380	20	09/21/08 15:38	09/30/08 03:26	12672-29-6	
PCB-1254 (Aroclor 1254)	**3360**	ug/kg	1000	380	20	09/21/08 15:38	09/30/08 03:26	11097-69-1	
PCB-1260 (Aroclor 1260)	**<380**	ug/kg	1000	380	20	09/21/08 15:38	09/30/08 03:26	11096-82-5	
PCB, Total	**6530**	ug/kg	1000	380	20	09/21/08 15:38	09/30/08 03:26	1336-36-3	
Tetrachloro-m-xylene (S)	0	%	40-136		20	09/21/08 15:38	09/30/08 03:26	877-09-8	S4
Decachlorobiphenyl (S)	0	%	47-145		20	09/21/08 15:38	09/30/08 03:26	2051-24-3	S4
Lipid	Analytical Method: Pace Lipid								
Lipid	**0.42**	%		0.10	1		09/24/08 07:28		

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ANALYTICAL RESULTS

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 408210

Sample: BL-UR1-JWS2-G, 8/19/08 **Lab ID: 408210020** Collected: 08/19/08 00:00 Received: 08/26/08 15:30 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCBs, Tissue	Analytical Method: EPA 8082 Preparation Method: EPA 3540								
PCB-1016 (Aroclor 1016)	**<797**	ug/kg	2100	797	20	09/21/08 15:38	09/30/08 03:52	12674-11-2	
PCB-1221 (Aroclor 1221)	**<797**	ug/kg	2100	797	20	09/21/08 15:38	09/30/08 03:52	11104-28-2	
PCB-1232 (Aroclor 1232)	**<797**	ug/kg	2100	797	20	09/21/08 15:38	09/30/08 03:52	11141-16-5	
PCB-1242 (Aroclor 1242)	**<797**	ug/kg	2100	797	20	09/21/08 15:38	09/30/08 03:52	53469-21-9	
PCB-1248 (Aroclor 1248)	**3910**	ug/kg	2100	797	20	09/21/08 15:38	09/30/08 03:52	12672-29-6	
PCB-1254 (Aroclor 1254)	**5020**	ug/kg	2100	797	20	09/21/08 15:38	09/30/08 03:52	11097-69-1	
PCB-1260 (Aroclor 1260)	**<797**	ug/kg	2100	797	20	09/21/08 15:38	09/30/08 03:52	11096-82-5	
PCB, Total	**8930**	ug/kg	2100	797	20	09/21/08 15:38	09/30/08 03:52	1336-36-3	
Tetrachloro-m-xylene (S)	0	%	40-136		20	09/21/08 15:38	09/30/08 03:52	877-09-8	S4
Decachlorobiphenyl (S)	0	%	47-145		20	09/21/08 15:38	09/30/08 03:52	2051-24-3	S4
Lipid	Analytical Method: Pace Lipid								
Lipid	**0.37**	%		0.10	1		09/24/08 07:28		

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QUALITY CONTROL DATA

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 408210

QC Batch: OEXT/2721 Analysis Method: EPA 8082
QC Batch Method: EPA 3540 Analysis Description: 8082 GCS Tissue Pesticides
Associated Lab Samples: 408210001, 408210002, 408210003, 408210004, 408210005, 408210006, 408210007, 408210008, 408210009, 408210010, 408210011, 408210012, 408210013, 408210014, 408210015, 408210016, 408210017, 408210018, 408210019, 408210020

METHOD BLANK: 79341 Matrix: Tissue
Associated Lab Samples: 408210001, 408210002, 408210003, 408210004, 408210005, 408210006, 408210007, 408210008, 408210009, 408210010, 408210011, 408210012, 408210013, 408210014, 408210015, 408210016, 408210017, 408210018, 408210019, 408210020

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg	<19.0	50.0	09/29/08 17:09	
PCB-1221 (Aroclor 1221)	ug/kg	<19.0	50.0	09/29/08 17:09	
PCB-1232 (Aroclor 1232)	ug/kg	<19.0	50.0	09/29/08 17:09	
PCB-1242 (Aroclor 1242)	ug/kg	<19.0	50.0	09/29/08 17:09	
PCB-1248 (Aroclor 1248)	ug/kg	<19.0	50.0	09/29/08 17:09	
PCB-1254 (Aroclor 1254)	ug/kg	<19.0	50.0	09/29/08 17:09	
PCB-1260 (Aroclor 1260)	ug/kg	<19.0	50.0	09/29/08 17:09	
Decachlorobiphenyl (S)	%	95	47-145	09/29/08 17:09	
Tetrachloro-m-xylene (S)	%	88	40-136	09/29/08 17:09	

LABORATORY CONTROL SAMPLE: 79342

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg		<19.0			
PCB-1221 (Aroclor 1221)	ug/kg		<19.0			
PCB-1232 (Aroclor 1232)	ug/kg		<19.0			
PCB-1242 (Aroclor 1242)	ug/kg		<19.0			
PCB-1248 (Aroclor 1248)	ug/kg		<19.0			
PCB-1254 (Aroclor 1254)	ug/kg	250	229	91	40-128	
PCB-1260 (Aroclor 1260)	ug/kg		<19.0			
Decachlorobiphenyl (S)	%			89	47-145	
Tetrachloro-m-xylene (S)	%			83	40-136	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 79343 79344

Parameter	Units	408210002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
PCB-1016 (Aroclor 1016)	ug/kg	<380			<380	<380					56	
PCB-1221 (Aroclor 1221)	ug/kg	<380			<380	<380					56	
PCB-1232 (Aroclor 1232)	ug/kg	<380			<380	<380					56	
PCB-1242 (Aroclor 1242)	ug/kg	<380			<380	<380					56	
PCB-1248 (Aroclor 1248)	ug/kg	5340			5290	4910				7	56	
PCB-1254 (Aroclor 1254)	ug/kg	2110	1000	1000	3050	2860	94	75	43-130	7	56	
PCB-1260 (Aroclor 1260)	ug/kg	<380			<380	<380					56	
Decachlorobiphenyl (S)	%						0	0	47-145			S4
Tetrachloro-m-xylene (S)	%						0	0	40-136			S4

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 408210

QC Batch: OEXT/2747 Analysis Method: Pace Lipid
QC Batch Method: Pace Lipid Analysis Description: LIPID
Associated Lab Samples: 408210001, 408210002, 408210003, 408210004, 408210005, 408210006, 408210007, 408210008, 408210009, 408210010, 408210011, 408210012, 408210013, 408210014, 408210015, 408210016, 408210017, 408210018, 408210019, 408210020

METHOD BLANK: 79864 Matrix: Tissue
Associated Lab Samples: 408210001, 408210002, 408210003, 408210004, 408210005, 408210006, 408210007, 408210008, 408210009, 408210010, 408210011, 408210012, 408210013, 408210014, 408210015, 408210016, 408210017, 408210018, 408210019, 408210020

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lipid	%	<0.10		09/24/08 07:23	

SAMPLE DUPLICATE: 79865

Parameter	Units	408210002 Result	Dup Result	RPD	Max RPD	Qualifiers
Lipid	%	4.4	4.2	5	20	

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QUALIFIERS

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 408210

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

Pace Analytical is NELAP accredited. Contact your Pace PM for the current list of accredited analytes.

ANALYTE QUALIFIERS

S4 Surrogate recovery not evaluated against control limits due to sample dilution.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 408210

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
408210001	BL-UR1-AC2-G,8/18/08	EPA 3540	OEXT/2721	EPA 8082	GCSV/1936
408210002	BL-UR1-AC4-G, 8/18/08	EPA 3540	OEXT/2721	EPA 8082	GCSV/1936
408210003	BL-UR1-AC3-G, 8/18/08	EPA 3540	OEXT/2721	EPA 8082	GCSV/1936
408210004	BL-UR1-AWS1-G, 8/18/08	EPA 3540	OEXT/2721	EPA 8082	GCSV/1936
408210005	BL-UR1-AWS2-G, 8/18/08	EPA 3540	OEXT/2721	EPA 8082	GCSV/1936
408210006	BL-UR1-SB1-G, 8/18/08	EPA 3540	OEXT/2721	EPA 8082	GCSV/1936
408210007	BL-UR1-SB2-G, 8/18/08	EPA 3540	OEXT/2721	EPA 8082	GCSV/1936
408210008	BL-UR1-AC1-G, 8/19/08	EPA 3540	OEXT/2721	EPA 8082	GCSV/1936
408210009	BL-UR1-JWS1-G, 8/19/08	EPA 3540	OEXT/2721	EPA 8082	GCSV/1936
408210010	BL-UR1-AWS4-G, 8/19/08	EPA 3540	OEXT/2721	EPA 8082	GCSV/1936
408210011	BL-UR1-AWS3-G, 8/19/08	EPA 3540	OEXT/2721	EPA 8082	GCSV/1936
408210012	BL-UR1-JWS4-G, 8/19/08	EPA 3540	OEXT/2721	EPA 8082	GCSV/1936
408210013	BL-UR1-SB3-G, 8/19/08	EPA 3540	OEXT/2721	EPA 8082	GCSV/1936
408210014	BL-UR1-SB4-G, 8/19/08	EPA 3540	OEXT/2721	EPA 8082	GCSV/1936
408210015	BL-UR1-SB5-G, 8/19/08	EPA 3540	OEXT/2721	EPA 8082	GCSV/1936
408210016	BL-UR1-SB6-G, 8/19/08	EPA 3540	OEXT/2721	EPA 8082	GCSV/1936
408210017	BL-UR1-SB7-G, 8/19/08	EPA 3540	OEXT/2721	EPA 8082	GCSV/1936
408210018	BL-UR1-SB8-G, 8/19/08	EPA 3540	OEXT/2721	EPA 8082	GCSV/1936
408210019	BL-UR1-RB1-G, 8/19/08	EPA 3540	OEXT/2721	EPA 8082	GCSV/1936
408210020	BL-UR1-JWS2-G, 8/19/08	EPA 3540	OEXT/2721	EPA 8082	GCSV/1936
408210001	BL-UR1-AC2-G,8/18/08	Pace Lipid	OEXT/2747		
408210002	BL-UR1-AC4-G, 8/18/08	Pace Lipid	OEXT/2747		
408210003	BL-UR1-AC3-G, 8/18/08	Pace Lipid	OEXT/2747		
408210004	BL-UR1-AWS1-G, 8/18/08	Pace Lipid	OEXT/2747		
408210005	BL-UR1-AWS2-G, 8/18/08	Pace Lipid	OEXT/2747		
408210006	BL-UR1-SB1-G, 8/18/08	Pace Lipid	OEXT/2747		
408210007	BL-UR1-SB2-G, 8/18/08	Pace Lipid	OEXT/2747		
408210008	BL-UR1-AC1-G, 8/19/08	Pace Lipid	OEXT/2747		
408210009	BL-UR1-JWS1-G, 8/19/08	Pace Lipid	OEXT/2747		
408210010	BL-UR1-AWS4-G, 8/19/08	Pace Lipid	OEXT/2747		
408210011	BL-UR1-AWS3-G, 8/19/08	Pace Lipid	OEXT/2747		
408210012	BL-UR1-JWS4-G, 8/19/08	Pace Lipid	OEXT/2747		
408210013	BL-UR1-SB3-G, 8/19/08	Pace Lipid	OEXT/2747		
408210014	BL-UR1-SB4-G, 8/19/08	Pace Lipid	OEXT/2747		
408210015	BL-UR1-SB5-G, 8/19/08	Pace Lipid	OEXT/2747		
408210016	BL-UR1-SB6-G, 8/19/08	Pace Lipid	OEXT/2747		
408210017	BL-UR1-SB7-G, 8/19/08	Pace Lipid	OEXT/2747		
408210018	BL-UR1-SB8-G, 8/19/08	Pace Lipid	OEXT/2747		
408210019	BL-UR1-RB1-G, 8/19/08	Pace Lipid	OEXT/2747		
408210020	BL-UR1-JWS2-G, 8/19/08	Pace Lipid	OEXT/2747		

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October 15, 2008

BRANDY PROFFITT
POLLUTION RISK SERVICES
7870 EAST KEMPER ROAD
SUITE 240
Cincinnati, OH 45249

RE: Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 408330

Dear BRANDY PROFFITT:
Enclosed are the analytical results for sample(s) received by the laboratory on August 28, 2008. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Tod Noltemeyer

Tod Noltemeyer

tod.noltemeyer@pacelabs.com
Project Manager

Enclosures

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CERTIFICATIONS

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 408330

Green Bay Certification IDs

Louisiana Certification #: 04169
Louisiana Certification #: 04168
Kentucky Certification #: 83
Kentucky Certification #: 82
Wisconsin DATCP Certification #: 105-444
Wisconsin DATCP Certification #: 105-444
Wisconsin Certification #: 405132750
Wisconsin Certification #: 405132750
South Carolina Certification #: 83006001
South Carolina Certification #: 83006001
Minnesota Certification #: 055-999-334
Minnesota Certification #: 055-999-334
North Carolina Certification #: 503
North Carolina Certification #: 503
North Dakota Certification #: R-200
North Dakota Certification #: R-150
New York Certification #: 11888
New York Certification #: 11887
Illinois Certification #: 200051
Illinois Certification #: 200050
Florida (NELAP) Certification #: E87951
Florida (NELAP) Certification #: E87948

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SAMPLE SUMMARY

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 408330

Lab ID	Sample ID	Matrix	Date Collected	Date Received
408330001	BL-UR2-AWS2-G, 8/21/08	Tissue	08/21/08 00:00	08/28/08 14:50
408330002	BL-UR2-SB6, 8/21/08	Tissue	08/21/08 00:00	08/28/08 14:50
408330003	BL-UR2-AWS3-G, 8/21/08	Tissue	08/21/08 00:00	08/28/08 14:50
408330004	BL-UR2-AC1-G, 8/21/08	Tissue	08/21/08 00:00	08/28/08 14:50
408330005	BL-UR2-AC2-G, 8/21/08	Tissue	08/21/08 00:00	08/28/08 14:50
408330006	BL-UR2-AC3-G, 8/21/08	Tissue	08/21/08 00:00	08/28/08 14:50
408330007	BL-UR2-SB7-G, 8/21/08	Tissue	08/21/08 00:00	08/28/08 14:50
408330008	BL-UR2-JWS1-G, 8/21/08	Tissue	08/21/08 00:00	08/28/08 14:50
408330009	BL-UR2-JWS2-G, 8/21/08	Tissue	08/21/08 00:00	08/28/08 14:50
408330010	BL-UR2-AWS4-G, 8/21/08	Tissue	08/21/08 00:00	08/28/08 14:50
408330011	BL-UR2-AC4-G, 8/21/08	Tissue	08/21/08 00:00	08/28/08 14:50
408330012	BL-UR2-SB8-G, 8/21/08	Tissue	08/21/08 00:00	08/28/08 14:50
408330013	BL-UR2-JWS3-G, 8/21/08	Tissue	08/21/08 00:00	08/28/08 14:50
408330014	BL-UR2-JWS4-G, 8/21/08	Tissue	08/21/08 00:00	08/28/08 14:50
408330015	BL-UR2-JWS5-G, 8/21/08	Tissue	08/21/08 00:00	08/28/08 14:50
408330016	BL-UR2-JWS6-G, 8/21/08	Tissue	08/21/08 00:00	08/28/08 14:50
408330017	BL-UR2-JWS7-G, 8/21/08	Tissue	08/21/08 00:00	08/28/08 14:50
408330018	BL-UR2-JWS8-G, 8/21/08	Tissue	08/21/08 00:00	08/28/08 14:50
408330019	BL-UR2-RB3-G, 8/21/08	Tissue	08/21/08 00:00	08/28/08 14:50
408330020	BL-UR2-RB4-G, 8/22/08	Tissue	08/22/08 00:00	08/28/08 14:50

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SAMPLE ANALYTE COUNT

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 408330

Lab ID	Sample ID	Method	Analysts	Analytes Reported
408330001	BL-UR2-AWS2-G, 8/21/08	EPA 8082	BDS	10
		Pace Lipid	KPH	1
408330002	BL-UR2-SB6, 8/21/08	EPA 8082	BDS	10
		Pace Lipid	KPH	1
408330003	BL-UR2-AWS3-G, 8/21/08	EPA 8082	BDS	10
		Pace Lipid	KPH	1
408330004	BL-UR2-AC1-G, 8/21/08	EPA 8082	BDS	10
		Pace Lipid	KPH	1
408330005	BL-UR2-AC2-G, 8/21/08	EPA 8082	BDS	10
		Pace Lipid	KPH	1
408330006	BL-UR2-AC3-G, 8/21/08	EPA 8082	BDS	10
		Pace Lipid	KPH	1
408330007	BL-UR2-SB7-G, 8/21/08	EPA 8082	BDS	10
		Pace Lipid	KPH	1
408330008	BL-UR2-JWS1-G, 8/21/08	EPA 8082	BDS	10
		Pace Lipid	KPH	1
408330009	BL-UR2-JWS2-G, 8/21/08	EPA 8082	BDS	10
		Pace Lipid	KPH	1
408330010	BL-UR2-AWS4-G, 8/21/08	EPA 8082	BDS	10
		Pace Lipid	KPH	1
408330011	BL-UR2-AC4-G, 8/21/08	EPA 8082	BDS	10
		Pace Lipid	KPH	1
408330012	BL-UR2-SB8-G, 8/21/08	EPA 8082	BDS	10
		Pace Lipid	KPH	1
408330013	BL-UR2-JWS3-G, 8/21/08	EPA 8082	BDS	10
		Pace Lipid	KPH	1
408330014	BL-UR2-JWS4-G, 8/21/08	EPA 8082	BDS	10
		Pace Lipid	KPH	1
408330015	BL-UR2-JWS5-G, 8/21/08	EPA 8082	BDS	10
		Pace Lipid	KPH	1
408330016	BL-UR2-JWS6-G, 8/21/08	EPA 8082	BDS	10
		Pace Lipid	KPH	1
408330017	BL-UR2-JWS7-G, 8/21/08	EPA 8082	BDS	10
		Pace Lipid	KPH	1
408330018	BL-UR2-JWS8-G, 8/21/08	EPA 8082	BDS	10
		Pace Lipid	KPH	1
408330019	BL-UR2-RB3-G, 8/21/08	EPA 8082	BDS	10

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SAMPLE ANALYTE COUNT

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 408330

Lab ID	Sample ID	Method	Analysts	Analytes Reported
		Pace Lipid	KPH	1
408330020	**BL-UR2-RB4-G, 8/22/08**	EPA 8082	BDS	10
		Pace Lipid	KPH	1

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PROJECT NARRATIVE

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 408330

Method: **EPA 8082**
Description: 8082 GCS PCBs, Tissue
Client: POLLUTION RISK SERVICES
Date: October 15, 2008

General Information:
20 samples were analyzed for EPA 8082. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 3540 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

QC Batch: OEXT/2776

S4: Surrogate recovery not evaluated against control limits due to sample dilution.

- BL-UR2-AC1-G, 8/21/08 (Lab ID: 408330004)
  - Decachlorobiphenyl (S)
  - Tetrachloro-m-xylene (S)
- BL-UR2-AC2-G, 8/21/08 (Lab ID: 408330005)
  - Decachlorobiphenyl (S)
  - Tetrachloro-m-xylene (S)
- BL-UR2-AC4-G, 8/21/08 (Lab ID: 408330011)
  - Decachlorobiphenyl (S)
  - Tetrachloro-m-xylene (S)
- BL-UR2-AWS2-G, 8/21/08 (Lab ID: 408330001)
  - Decachlorobiphenyl (S)
  - Tetrachloro-m-xylene (S)
- BL-UR2-AWS3-G, 8/21/08 (Lab ID: 408330003)
  - Decachlorobiphenyl (S)
  - Tetrachloro-m-xylene (S)
- BL-UR2-AWS4-G, 8/21/08 (Lab ID: 408330010)
  - Decachlorobiphenyl (S)
  - Tetrachloro-m-xylene (S)
- BL-UR2-JWS1-G, 8/21/08 (Lab ID: 408330008)
  - Decachlorobiphenyl (S)
  - Tetrachloro-m-xylene (S)
- BL-UR2-JWS2-G, 8/21/08 (Lab ID: 408330009)
  - Decachlorobiphenyl (S)
  - Tetrachloro-m-xylene (S)
- BL-UR2-JWS5-G, 8/21/08 (Lab ID: 408330015)

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PROJECT NARRATIVE

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 408330

Method: **EPA 8082**
Description: 8082 GCS PCBs, Tissue
Client: POLLUTION RISK SERVICES
Date: October 15, 2008

QC Batch: OEXT/2776

S4: Surrogate recovery not evaluated against control limits due to sample dilution.
- Decachlorobiphenyl (S)
- Tetrachloro-m-xylene (S)
- BL-UR2-JWS8-G, 8/21/08 (Lab ID: 408330018)
  - Decachlorobiphenyl (S)
  - Tetrachloro-m-xylene (S)
- BL-UR2-RB3-G, 8/21/08 (Lab ID: 408330019)
  - Decachlorobiphenyl (S)
  - Tetrachloro-m-xylene (S)
- BL-UR2-RB4-G, 8/22/08 (Lab ID: 408330020)
  - Decachlorobiphenyl (S)
  - Tetrachloro-m-xylene (S)
- BL-UR2-SB6, 8/21/08 (Lab ID: 408330002)
  - Decachlorobiphenyl (S)
  - Tetrachloro-m-xylene (S)
- BL-UR2-SB7-G, 8/21/08 (Lab ID: 408330007)
  - Decachlorobiphenyl (S)
  - Tetrachloro-m-xylene (S)
- BL-UR2-SB8-G, 8/21/08 (Lab ID: 408330012)
  - Decachlorobiphenyl (S)
  - Tetrachloro-m-xylene (S)
- MS (Lab ID: 80752)
  - Decachlorobiphenyl (S)
  - Tetrachloro-m-xylene (S)
- MSD (Lab ID: 80753)
  - Decachlorobiphenyl (S)
  - Tetrachloro-m-xylene (S)

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 408330

Method: **Pace Lipid**
Description: Lipid
Client: POLLUTION RISK SERVICES
Date: October 15, 2008

General Information:
20 samples were analyzed for Pace Lipid. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

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ANALYTICAL RESULTS

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 408330

Sample: BL-UR2-AWS2-G, 8/21/08 **Lab ID: 408330001** Collected: 08/21/08 00:00 Received: 08/28/08 14:50 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCBs, Tissue	Analytical Method: EPA 8082 Preparation Method: EPA 3540								
PCB-1016 (Aroclor 1016)	**<570**	ug/kg	1500	570	30	09/25/08 14:05	10/01/08 17:46	12674-11-2	
PCB-1221 (Aroclor 1221)	**<570**	ug/kg	1500	570	30	09/25/08 14:05	10/01/08 17:46	11104-28-2	
PCB-1232 (Aroclor 1232)	**<570**	ug/kg	1500	570	30	09/25/08 14:05	10/01/08 17:46	11141-16-5	
PCB-1242 (Aroclor 1242)	**<570**	ug/kg	1500	570	30	09/25/08 14:05	10/01/08 17:46	53469-21-9	
PCB-1248 (Aroclor 1248)	**6980**	ug/kg	1500	570	30	09/25/08 14:05	10/01/08 17:46	12672-29-6	
PCB-1254 (Aroclor 1254)	**5060**	ug/kg	1500	570	30	09/25/08 14:05	10/01/08 17:46	11097-69-1	
PCB-1260 (Aroclor 1260)	**<570**	ug/kg	1500	570	30	09/25/08 14:05	10/01/08 17:46	11096-82-5	
PCB, Total	**12000**	ug/kg	1500	570	30	09/25/08 14:05	10/01/08 17:46	1336-36-3	
Tetrachloro-m-xylene (S)	0	%	40-136		30	09/25/08 14:05	10/01/08 17:46	877-09-8	S4
Decachlorobiphenyl (S)	0	%	47-145		30	09/25/08 14:05	10/01/08 17:46	2051-24-3	S4
Lipid	Analytical Method: Pace Lipid								
Lipid	**1.3**	%		0.10	1		09/29/08 07:30		

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ANALYTICAL RESULTS

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 408330

Sample: BL-UR2-SB6, 8/21/08 **Lab ID: 408330002** Collected: 08/21/08 00:00 Received: 08/28/08 14:50 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCBs, Tissue	Analytical Method: EPA 8082 Preparation Method: EPA 3540								
PCB-1016 (Aroclor 1016)	**<570**	ug/kg	1500	570	30	09/25/08 14:05	10/01/08 18:14	12674-11-2	
PCB-1221 (Aroclor 1221)	**<570**	ug/kg	1500	570	30	09/25/08 14:05	10/01/08 18:14	11104-28-2	
PCB-1232 (Aroclor 1232)	**<570**	ug/kg	1500	570	30	09/25/08 14:05	10/01/08 18:14	11141-16-5	
PCB-1242 (Aroclor 1242)	**<570**	ug/kg	1500	570	30	09/25/08 14:05	10/01/08 18:14	53469-21-9	
PCB-1248 (Aroclor 1248)	**3460**	ug/kg	1500	570	30	09/25/08 14:05	10/01/08 18:14	12672-29-6	
PCB-1254 (Aroclor 1254)	**2960**	ug/kg	1500	570	30	09/25/08 14:05	10/01/08 18:14	11097-69-1	
PCB-1260 (Aroclor 1260)	**<570**	ug/kg	1500	570	30	09/25/08 14:05	10/01/08 18:14	11096-82-5	
PCB, Total	**6410**	ug/kg	1500	570	30	09/25/08 14:05	10/01/08 18:14	1336-36-3	
Tetrachloro-m-xylene (S)	0	%	40-136		30	09/25/08 14:05	10/01/08 18:14	877-09-8	S4
Decachlorobiphenyl (S)	0	%	47-145		30	09/25/08 14:05	10/01/08 18:14	2051-24-3	S4
Lipid	Analytical Method: Pace Lipid								
Lipid	**0.97**	%		0.10	1		09/29/08 07:30		

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ANALYTICAL RESULTS

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 408330

Sample: BL-UR2-AWS3-G, 8/21/08 **Lab ID: 408330003** Collected: 08/21/08 00:00 Received: 08/28/08 14:50 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCBs, Tissue	Analytical Method: EPA 8082 Preparation Method: EPA 3540								
PCB-1016 (Aroclor 1016)	**<380**	ug/kg	1000	380	20	09/25/08 14:05	10/01/08 18:42	12674-11-2	
PCB-1221 (Aroclor 1221)	**<380**	ug/kg	1000	380	20	09/25/08 14:05	10/01/08 18:42	11104-28-2	
PCB-1232 (Aroclor 1232)	**<380**	ug/kg	1000	380	20	09/25/08 14:05	10/01/08 18:42	11141-16-5	
PCB-1242 (Aroclor 1242)	**<380**	ug/kg	1000	380	20	09/25/08 14:05	10/01/08 18:42	53469-21-9	
PCB-1248 (Aroclor 1248)	**3000**	ug/kg	1000	380	20	09/25/08 14:05	10/01/08 18:42	12672-29-6	
PCB-1254 (Aroclor 1254)	**2050**	ug/kg	1000	380	20	09/25/08 14:05	10/01/08 18:42	11097-69-1	
PCB-1260 (Aroclor 1260)	**<380**	ug/kg	1000	380	20	09/25/08 14:05	10/01/08 18:42	11096-82-5	
PCB, Total	**5040**	ug/kg	1000	380	20	09/25/08 14:05	10/01/08 18:42	1336-36-3	
Tetrachloro-m-xylene (S)	0	%	40-136		20	09/25/08 14:05	10/01/08 18:42	877-09-8	S4
Decachlorobiphenyl (S)	0	%	47-145		20	09/25/08 14:05	10/01/08 18:42	2051-24-3	S4
Lipid	Analytical Method: Pace Lipid								
Lipid	**1.1**	%		0.10	1		09/29/08 07:30		

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ANALYTICAL RESULTS

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 408330

Sample: BL-UR2-AC1-G, 8/21/08 **Lab ID: 408330004** Collected: 08/21/08 00:00 Received: 08/28/08 14:50 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCBs, Tissue	Analytical Method: EPA 8082 Preparation Method: EPA 3540								
PCB-1016 (Aroclor 1016)	**<1900**	ug/kg	5000	1900	100	09/25/08 14:05	10/01/08 19:10	12674-11-2	
PCB-1221 (Aroclor 1221)	**<1900**	ug/kg	5000	1900	100	09/25/08 14:05	10/01/08 19:10	11104-28-2	
PCB-1232 (Aroclor 1232)	**<1900**	ug/kg	5000	1900	100	09/25/08 14:05	10/01/08 19:10	11141-16-5	
PCB-1242 (Aroclor 1242)	**<1900**	ug/kg	5000	1900	100	09/25/08 14:05	10/01/08 19:10	53469-21-9	
PCB-1248 (Aroclor 1248)	**24100**	ug/kg	5000	1900	100	09/25/08 14:05	10/01/08 19:10	12672-29-6	
PCB-1254 (Aroclor 1254)	**10400**	ug/kg	5000	1900	100	09/25/08 14:05	10/01/08 19:10	11097-69-1	
PCB-1260 (Aroclor 1260)	**<1900**	ug/kg	5000	1900	100	09/25/08 14:05	10/01/08 19:10	11096-82-5	
PCB, Total	**34500**	ug/kg	5000	1900	100	09/25/08 14:05	10/01/08 19:10	1336-36-3	
Tetrachloro-m-xylene (S)	0	%	40-136		100	09/25/08 14:05	10/01/08 19:10	877-09-8	S4
Decachlorobiphenyl (S)	0	%	47-145		100	09/25/08 14:05	10/01/08 19:10	2051-24-3	S4
Lipid	Analytical Method: Pace Lipid								
Lipid	**7.4**	%		0.10	1		09/29/08 07:31		

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ANALYTICAL RESULTS

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 408330

Sample: BL-UR2-AC2-G, 8/21/08 **Lab ID: 408330005** Collected: 08/21/08 00:00 Received: 08/28/08 14:50 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCBs, Tissue	Analytical Method: EPA 8082 Preparation Method: EPA 3540								
PCB-1016 (Aroclor 1016)	**<380**	ug/kg	1000	380	20	09/25/08 14:05	10/01/08 19:38	12674-11-2	
PCB-1221 (Aroclor 1221)	**<380**	ug/kg	1000	380	20	09/25/08 14:05	10/01/08 19:38	11104-28-2	
PCB-1232 (Aroclor 1232)	**<380**	ug/kg	1000	380	20	09/25/08 14:05	10/01/08 19:38	11141-16-5	
PCB-1242 (Aroclor 1242)	**<380**	ug/kg	1000	380	20	09/25/08 14:05	10/01/08 19:38	53469-21-9	
PCB-1248 (Aroclor 1248)	**3760**	ug/kg	1000	380	20	09/25/08 14:05	10/01/08 19:38	12672-29-6	
PCB-1254 (Aroclor 1254)	**1380**	ug/kg	1000	380	20	09/25/08 14:05	10/01/08 19:38	11097-69-1	
PCB-1260 (Aroclor 1260)	**<380**	ug/kg	1000	380	20	09/25/08 14:05	10/01/08 19:38	11096-82-5	
PCB, Total	**5140**	ug/kg	1000	380	20	09/25/08 14:05	10/01/08 19:38	1336-36-3	
Tetrachloro-m-xylene (S)	0	%	40-136		20	09/25/08 14:05	10/01/08 19:38	877-09-8	S4
Decachlorobiphenyl (S)	0	%	47-145		20	09/25/08 14:05	10/01/08 19:38	2051-24-3	S4
Lipid	Analytical Method: Pace Lipid								
Lipid	**2.0**	%		0.10	1		09/29/08 07:31		

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ANALYTICAL RESULTS

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 408330

Sample: BL-UR2-AC3-G, 8/21/08 **Lab ID: 408330006** Collected: 08/21/08 00:00 Received: 08/28/08 14:50 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCBs, Tissue	Analytical Method: EPA 8082 Preparation Method: EPA 3540								
PCB-1016 (Aroclor 1016)	**<190**	ug/kg	500	190	10	09/25/08 14:05	10/01/08 20:06	12674-11-2	
PCB-1221 (Aroclor 1221)	**<190**	ug/kg	500	190	10	09/25/08 14:05	10/01/08 20:06	11104-28-2	
PCB-1232 (Aroclor 1232)	**<190**	ug/kg	500	190	10	09/25/08 14:05	10/01/08 20:06	11141-16-5	
PCB-1242 (Aroclor 1242)	**<190**	ug/kg	500	190	10	09/25/08 14:05	10/01/08 20:06	53469-21-9	
PCB-1248 (Aroclor 1248)	**2200**	ug/kg	500	190	10	09/25/08 14:05	10/01/08 20:06	12672-29-6	
PCB-1254 (Aroclor 1254)	**975**	ug/kg	500	190	10	09/25/08 14:05	10/01/08 20:06	11097-69-1	
PCB-1260 (Aroclor 1260)	**<190**	ug/kg	500	190	10	09/25/08 14:05	10/01/08 20:06	11096-82-5	
PCB, Total	**3180**	ug/kg	500	190	10	09/25/08 14:05	10/01/08 20:06	1336-36-3	
Tetrachloro-m-xylene (S)	77	%	40-136		10	09/25/08 14:05	10/01/08 20:06	877-09-8	
Decachlorobiphenyl (S)	92	%	47-145		10	09/25/08 14:05	10/01/08 20:06	2051-24-3	
Lipid	Analytical Method: Pace Lipid								
Lipid	**4.0**	%		0.10	1		09/29/08 07:32		

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ANALYTICAL RESULTS

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 408330

Sample: BL-UR2-SB7-G, 8/21/08 **Lab ID: 408330007** Collected: 08/21/08 00:00 Received: 08/28/08 14:50 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCBs, Tissue	Analytical Method: EPA 8082 Preparation Method: EPA 3540								
PCB-1016 (Aroclor 1016)	**<950**	ug/kg	2500	950	50	09/25/08 14:05	10/01/08 20:34	12674-11-2	
PCB-1221 (Aroclor 1221)	**<950**	ug/kg	2500	950	50	09/25/08 14:05	10/01/08 20:34	11104-28-2	
PCB-1232 (Aroclor 1232)	**<950**	ug/kg	2500	950	50	09/25/08 14:05	10/01/08 20:34	11141-16-5	
PCB-1242 (Aroclor 1242)	**<950**	ug/kg	2500	950	50	09/25/08 14:05	10/01/08 20:34	53469-21-9	
PCB-1248 (Aroclor 1248)	**7090**	ug/kg	2500	950	50	09/25/08 14:05	10/01/08 20:34	12672-29-6	
PCB-1254 (Aroclor 1254)	**6380**	ug/kg	2500	950	50	09/25/08 14:05	10/01/08 20:34	11097-69-1	
PCB-1260 (Aroclor 1260)	**<950**	ug/kg	2500	950	50	09/25/08 14:05	10/01/08 20:34	11096-82-5	
PCB, Total	**13500**	ug/kg	2500	950	50	09/25/08 14:05	10/01/08 20:34	1336-36-3	
Tetrachloro-m-xylene (S)	0	%	40-136		50	09/25/08 14:05	10/01/08 20:34	877-09-8	S4
Decachlorobiphenyl (S)	0	%	47-145		50	09/25/08 14:05	10/01/08 20:34	2051-24-3	S4
Lipid	Analytical Method: Pace Lipid								
Lipid	**1.7**	%		0.10	1		09/29/08 07:32		

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ANALYTICAL RESULTS

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 408330

Sample: BL-UR2-JWS1-G, 8/21/08 **Lab ID: 408330008** Collected: 08/21/08 00:00 Received: 08/28/08 14:50 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCBs, Tissue	Analytical Method: EPA 8082 Preparation Method: EPA 3540								
PCB-1016 (Aroclor 1016)	**<507**	ug/kg	1330	507	20	09/25/08 14:05	10/01/08 21:02	12674-11-2	
PCB-1221 (Aroclor 1221)	**<507**	ug/kg	1330	507	20	09/25/08 14:05	10/01/08 21:02	11104-28-2	
PCB-1232 (Aroclor 1232)	**<507**	ug/kg	1330	507	20	09/25/08 14:05	10/01/08 21:02	11141-16-5	
PCB-1242 (Aroclor 1242)	**<507**	ug/kg	1330	507	20	09/25/08 14:05	10/01/08 21:02	53469-21-9	
PCB-1248 (Aroclor 1248)	**1200J**	ug/kg	1330	507	20	09/25/08 14:05	10/01/08 21:02	12672-29-6	
PCB-1254 (Aroclor 1254)	**3180**	ug/kg	1330	507	20	09/25/08 14:05	10/01/08 21:02	11097-69-1	
PCB-1260 (Aroclor 1260)	**<507**	ug/kg	1330	507	20	09/25/08 14:05	10/01/08 21:02	11096-82-5	
PCB, Total	**4390**	ug/kg	1330	507	20	09/25/08 14:05	10/01/08 21:02	1336-36-3	
Tetrachloro-m-xylene (S)	0	%	40-136		20	09/25/08 14:05	10/01/08 21:02	877-09-8	S4
Decachlorobiphenyl (S)	0	%	47-145		20	09/25/08 14:05	10/01/08 21:02	2051-24-3	S4
Lipid	Analytical Method: Pace Lipid								
Lipid	**0.51**	%		0.10	1		09/29/08 07:32		

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ANALYTICAL RESULTS

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 408330

Sample: BL-UR2-JWS2-G, 8/21/08 **Lab ID: 408330009** Collected: 08/21/08 00:00 Received: 08/28/08 14:50 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCBs, Tissue	Analytical Method: EPA 8082 Preparation Method: EPA 3540								
PCB-1016 (Aroclor 1016)	**<760**	ug/kg	2000	760	30	09/25/08 14:05	10/01/08 22:27	12674-11-2	
PCB-1221 (Aroclor 1221)	**<760**	ug/kg	2000	760	30	09/25/08 14:05	10/01/08 22:27	11104-28-2	
PCB-1232 (Aroclor 1232)	**<760**	ug/kg	2000	760	30	09/25/08 14:05	10/01/08 22:27	11141-16-5	
PCB-1242 (Aroclor 1242)	**<760**	ug/kg	2000	760	30	09/25/08 14:05	10/01/08 22:27	53469-21-9	
PCB-1248 (Aroclor 1248)	**5900**	ug/kg	2000	760	30	09/25/08 14:05	10/01/08 22:27	12672-29-6	
PCB-1254 (Aroclor 1254)	**5570**	ug/kg	2000	760	30	09/25/08 14:05	10/01/08 22:27	11097-69-1	
PCB-1260 (Aroclor 1260)	**<760**	ug/kg	2000	760	30	09/25/08 14:05	10/01/08 22:27	11096-82-5	
PCB, Total	**11500**	ug/kg	2000	760	30	09/25/08 14:05	10/01/08 22:27	1336-36-3	
Tetrachloro-m-xylene (S)	0	%	40-136		30	09/25/08 14:05	10/01/08 22:27	877-09-8	S4
Decachlorobiphenyl (S)	0	%	47-145		30	09/25/08 14:05	10/01/08 22:27	2051-24-3	S4
Lipid	Analytical Method: Pace Lipid								
Lipid	**0.45**	%		0.10	1		09/29/08 07:32		

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ANALYTICAL RESULTS

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 408330

Sample: BL-UR2-AWS4-G, 8/21/08 **Lab ID: 408330010** Collected: 08/21/08 00:00 Received: 08/28/08 14:50 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCBs, Tissue	Analytical Method: EPA 8082 Preparation Method: EPA 3540								
PCB-1016 (Aroclor 1016)	**<570**	ug/kg	1500	570	30	09/25/08 14:05	10/01/08 22:55	12674-11-2	
PCB-1221 (Aroclor 1221)	**<570**	ug/kg	1500	570	30	09/25/08 14:05	10/01/08 22:55	11104-28-2	
PCB-1232 (Aroclor 1232)	**<570**	ug/kg	1500	570	30	09/25/08 14:05	10/01/08 22:55	11141-16-5	
PCB-1242 (Aroclor 1242)	**<570**	ug/kg	1500	570	30	09/25/08 14:05	10/01/08 22:55	53469-21-9	
PCB-1248 (Aroclor 1248)	**5510**	ug/kg	1500	570	30	09/25/08 14:05	10/01/08 22:55	12672-29-6	
PCB-1254 (Aroclor 1254)	**3930**	ug/kg	1500	570	30	09/25/08 14:05	10/01/08 22:55	11097-69-1	
PCB-1260 (Aroclor 1260)	**<570**	ug/kg	1500	570	30	09/25/08 14:05	10/01/08 22:55	11096-82-5	
PCB, Total	**9440**	ug/kg	1500	570	30	09/25/08 14:05	10/01/08 22:55	1336-36-3	
Tetrachloro-m-xylene (S)	0	%	40-136		30	09/25/08 14:05	10/01/08 22:55	877-09-8	S4
Decachlorobiphenyl (S)	0	%	47-145		30	09/25/08 14:05	10/01/08 22:55	2051-24-3	S4
Lipid	Analytical Method: Pace Lipid								
Lipid	**0.72**	%		0.10	1		09/29/08 07:33		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 408330

Sample: BL-UR2-AC4-G, 8/21/08 **Lab ID: 408330011** Collected: 08/21/08 00:00 Received: 08/28/08 14:50 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCBs, Tissue	Analytical Method: EPA 8082 Preparation Method: EPA 3540								
PCB-1016 (Aroclor 1016)	**<380**	ug/kg	1000	380	20	09/25/08 14:05	10/01/08 23:23	12674-11-2	
PCB-1221 (Aroclor 1221)	**<380**	ug/kg	1000	380	20	09/25/08 14:05	10/01/08 23:23	11104-28-2	
PCB-1232 (Aroclor 1232)	**<380**	ug/kg	1000	380	20	09/25/08 14:05	10/01/08 23:23	11141-16-5	
PCB-1242 (Aroclor 1242)	**<380**	ug/kg	1000	380	20	09/25/08 14:05	10/01/08 23:23	53469-21-9	
PCB-1248 (Aroclor 1248)	**5290**	ug/kg	1000	380	20	09/25/08 14:05	10/01/08 23:23	12672-29-6	
PCB-1254 (Aroclor 1254)	**2550**	ug/kg	1000	380	20	09/25/08 14:05	10/01/08 23:23	11097-69-1	
PCB-1260 (Aroclor 1260)	**<380**	ug/kg	1000	380	20	09/25/08 14:05	10/01/08 23:23	11096-82-5	
PCB, Total	**7840**	ug/kg	1000	380	20	09/25/08 14:05	10/01/08 23:23	1336-36-3	
Tetrachloro-m-xylene (S)	0	%	40-136		20	09/25/08 14:05	10/01/08 23:23	877-09-8	S4
Decachlorobiphenyl (S)	0	%	47-145		20	09/25/08 14:05	10/01/08 23:23	2051-24-3	S4
Lipid	Analytical Method: Pace Lipid								
Lipid	**4.6**	%		0.10	1		09/29/08 07:33		

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ANALYTICAL RESULTS

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 408330

Sample: BL-UR2-SB8-G, 8/21/08 **Lab ID: 408330012** Collected: 08/21/08 00:00 Received: 08/28/08 14:50 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCBs, Tissue	Analytical Method: EPA 8082 Preparation Method: EPA 3540								
PCB-1016 (Aroclor 1016)	**<570**	ug/kg	1500	570	30	09/25/08 14:05	10/01/08 23:51	12674-11-2	
PCB-1221 (Aroclor 1221)	**<570**	ug/kg	1500	570	30	09/25/08 14:05	10/01/08 23:51	11104-28-2	
PCB-1232 (Aroclor 1232)	**<570**	ug/kg	1500	570	30	09/25/08 14:05	10/01/08 23:51	11141-16-5	
PCB-1242 (Aroclor 1242)	**<570**	ug/kg	1500	570	30	09/25/08 14:05	10/01/08 23:51	53469-21-9	
PCB-1248 (Aroclor 1248)	**5460**	ug/kg	1500	570	30	09/25/08 14:05	10/01/08 23:51	12672-29-6	
PCB-1254 (Aroclor 1254)	**5050**	ug/kg	1500	570	30	09/25/08 14:05	10/01/08 23:51	11097-69-1	
PCB-1260 (Aroclor 1260)	**<570**	ug/kg	1500	570	30	09/25/08 14:05	10/01/08 23:51	11096-82-5	
PCB, Total	**10500**	ug/kg	1500	570	30	09/25/08 14:05	10/01/08 23:51	1336-36-3	
Tetrachloro-m-xylene (S)	0	%	40-136		30	09/25/08 14:05	10/01/08 23:51	877-09-8	S4
Decachlorobiphenyl (S)	0	%	47-145		30	09/25/08 14:05	10/01/08 23:51	2051-24-3	S4
Lipid	Analytical Method: Pace Lipid								
Lipid	**1.3**	%		0.10	1		09/29/08 07:33		

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ANALYTICAL RESULTS

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 408330

Sample: BL-UR2-JWS3-G, 8/21/08 **Lab ID: 408330013** Collected: 08/21/08 00:00 Received: 08/28/08 14:50 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCBs, Tissue	Analytical Method: EPA 8082 Preparation Method: EPA 3540								
PCB-1016 (Aroclor 1016)	**<304**	ug/kg	800	304	4	09/25/08 14:05	10/02/08 00:19	12674-11-2	
PCB-1221 (Aroclor 1221)	**<304**	ug/kg	800	304	4	09/25/08 14:05	10/02/08 00:19	11104-28-2	
PCB-1232 (Aroclor 1232)	**<304**	ug/kg	800	304	4	09/25/08 14:05	10/02/08 00:19	11141-16-5	
PCB-1242 (Aroclor 1242)	**<304**	ug/kg	800	304	4	09/25/08 14:05	10/02/08 00:19	53469-21-9	
PCB-1248 (Aroclor 1248)	**2620**	ug/kg	800	304	4	09/25/08 14:05	10/02/08 00:19	12672-29-6	
PCB-1254 (Aroclor 1254)	**2740**	ug/kg	800	304	4	09/25/08 14:05	10/02/08 00:19	11097-69-1	
PCB-1260 (Aroclor 1260)	**353J**	ug/kg	800	304	4	09/25/08 14:05	10/02/08 00:19	11096-82-5	
PCB, Total	**5710**	ug/kg	800	304	4	09/25/08 14:05	10/02/08 00:19	1336-36-3	
Tetrachloro-m-xylene (S)	88	%	40-136		4	09/25/08 14:05	10/02/08 00:19	877-09-8	
Decachlorobiphenyl (S)	92	%	47-145		4	09/25/08 14:05	10/02/08 00:19	2051-24-3	
Lipid	Analytical Method: Pace Lipid								
Lipid	**0.58**	%		0.10	1		09/29/08 07:33		

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ANALYTICAL RESULTS

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 408330

Sample: BL-UR2-JWS4-G, 8/21/08 **Lab ID: 408330014** Collected: 08/21/08 00:00 Received: 08/28/08 14:50 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCBs, Tissue	Analytical Method: EPA 8082 Preparation Method: EPA 3540								
PCB-1016 (Aroclor 1016)	**<380**	ug/kg	1000	380	5	09/25/08 14:05	10/02/08 00:47	12674-11-2	
PCB-1221 (Aroclor 1221)	**<380**	ug/kg	1000	380	5	09/25/08 14:05	10/02/08 00:47	11104-28-2	
PCB-1232 (Aroclor 1232)	**<380**	ug/kg	1000	380	5	09/25/08 14:05	10/02/08 00:47	11141-16-5	
PCB-1242 (Aroclor 1242)	**<380**	ug/kg	1000	380	5	09/25/08 14:05	10/02/08 00:47	53469-21-9	
PCB-1248 (Aroclor 1248)	**3250**	ug/kg	1000	380	5	09/25/08 14:05	10/02/08 00:47	12672-29-6	
PCB-1254 (Aroclor 1254)	**2710**	ug/kg	1000	380	5	09/25/08 14:05	10/02/08 00:47	11097-69-1	
PCB-1260 (Aroclor 1260)	**<380**	ug/kg	1000	380	5	09/25/08 14:05	10/02/08 00:47	11096-82-5	
PCB, Total	**5960**	ug/kg	1000	380	5	09/25/08 14:05	10/02/08 00:47	1336-36-3	
Tetrachloro-m-xylene (S)	87	%	40-136		5	09/25/08 14:05	10/02/08 00:47	877-09-8	
Decachlorobiphenyl (S)	93	%	47-145		5	09/25/08 14:05	10/02/08 00:47	2051-24-3	
Lipid	Analytical Method: Pace Lipid								
Lipid	**0.44**	%		0.10	1		09/29/08 07:34		

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ANALYTICAL RESULTS

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 408330

Sample: BL-UR2-JWS5-G, 8/21/08 **Lab ID: 408330015** Collected: 08/21/08 00:00 Received: 08/28/08 14:50 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCBs, Tissue	Analytical Method: EPA 8082 Preparation Method: EPA 3540								
PCB-1016 (Aroclor 1016)	**<760**	ug/kg	2000	760	20	09/25/08 14:05	10/02/08 01:15	12674-11-2	
PCB-1221 (Aroclor 1221)	**<760**	ug/kg	2000	760	20	09/25/08 14:05	10/02/08 01:15	11104-28-2	
PCB-1232 (Aroclor 1232)	**<760**	ug/kg	2000	760	20	09/25/08 14:05	10/02/08 01:15	11141-16-5	
PCB-1242 (Aroclor 1242)	**<760**	ug/kg	2000	760	20	09/25/08 14:05	10/02/08 01:15	53469-21-9	
PCB-1248 (Aroclor 1248)	**2900**	ug/kg	2000	760	20	09/25/08 14:05	10/02/08 01:15	12672-29-6	
PCB-1254 (Aroclor 1254)	**6420**	ug/kg	2000	760	20	09/25/08 14:05	10/02/08 01:15	11097-69-1	
PCB-1260 (Aroclor 1260)	**<760**	ug/kg	2000	760	20	09/25/08 14:05	10/02/08 01:15	11096-82-5	
PCB, Total	**9320**	ug/kg	2000	760	20	09/25/08 14:05	10/02/08 01:15	1336-36-3	
Tetrachloro-m-xylene (S)	0	%	40-136		20	09/25/08 14:05	10/02/08 01:15	877-09-8	S4
Decachlorobiphenyl (S)	0	%	47-145		20	09/25/08 14:05	10/02/08 01:15	2051-24-3	S4
Lipid	Analytical Method: Pace Lipid								
Lipid	**0.49**	%		0.10	1		09/29/08 07:34		

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ANALYTICAL RESULTS

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 408330

Sample: BL-UR2-JWS6-G, 8/21/08 **Lab ID: 408330016** Collected: 08/21/08 00:00 Received: 08/28/08 14:50 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCBs, Tissue	Analytical Method: EPA 8082 Preparation Method: EPA 3540								
PCB-1016 (Aroclor 1016)	**<253**	ug/kg	667	253	10	09/25/08 14:05	10/02/08 01:43	12674-11-2	
PCB-1221 (Aroclor 1221)	**<253**	ug/kg	667	253	10	09/25/08 14:05	10/02/08 01:43	11104-28-2	
PCB-1232 (Aroclor 1232)	**<253**	ug/kg	667	253	10	09/25/08 14:05	10/02/08 01:43	11141-16-5	
PCB-1242 (Aroclor 1242)	**<253**	ug/kg	667	253	10	09/25/08 14:05	10/02/08 01:43	53469-21-9	
PCB-1248 (Aroclor 1248)	**1620**	ug/kg	667	253	10	09/25/08 14:05	10/02/08 01:43	12672-29-6	
PCB-1254 (Aroclor 1254)	**2560**	ug/kg	667	253	10	09/25/08 14:05	10/02/08 01:43	11097-69-1	
PCB-1260 (Aroclor 1260)	**<253**	ug/kg	667	253	10	09/25/08 14:05	10/02/08 01:43	11096-82-5	
PCB, Total	**4170**	ug/kg	667	253	10	09/25/08 14:05	10/02/08 01:43	1336-36-3	
Tetrachloro-m-xylene (S)	81	%	40-136		10	09/25/08 14:05	10/02/08 01:43	877-09-8	
Decachlorobiphenyl (S)	92	%	47-145		10	09/25/08 14:05	10/02/08 01:43	2051-24-3	
Lipid	Analytical Method: Pace Lipid								
Lipid	**0.41**	%		0.10	1		09/29/08 07:34		

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ANALYTICAL RESULTS

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 408330

Sample: BL-UR2-JWS7-G, 8/21/08 **Lab ID: 408330017** Collected: 08/21/08 00:00 Received: 08/28/08 14:50 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCBs, Tissue	Analytical Method: EPA 8082 Preparation Method: EPA 3540								
PCB-1016 (Aroclor 1016)	**<190**	ug/kg	500	190	10	09/25/08 14:05	10/02/08 02:12	12674-11-2	
PCB-1221 (Aroclor 1221)	**<190**	ug/kg	500	190	10	09/25/08 14:05	10/02/08 02:12	11104-28-2	
PCB-1232 (Aroclor 1232)	**<190**	ug/kg	500	190	10	09/25/08 14:05	10/02/08 02:12	11141-16-5	
PCB-1242 (Aroclor 1242)	**<190**	ug/kg	500	190	10	09/25/08 14:05	10/02/08 02:12	53469-21-9	
PCB-1248 (Aroclor 1248)	**1960**	ug/kg	500	190	10	09/25/08 14:05	10/02/08 02:12	12672-29-6	
PCB-1254 (Aroclor 1254)	**1780**	ug/kg	500	190	10	09/25/08 14:05	10/02/08 02:12	11097-69-1	
PCB-1260 (Aroclor 1260)	**<190**	ug/kg	500	190	10	09/25/08 14:05	10/02/08 02:12	11096-82-5	
PCB, Total	**3730**	ug/kg	500	190	10	09/25/08 14:05	10/02/08 02:12	1336-36-3	
Tetrachloro-m-xylene (S)	89	%	40-136		10	09/25/08 14:05	10/02/08 02:12	877-09-8	
Decachlorobiphenyl (S)	100	%	47-145		10	09/25/08 14:05	10/02/08 02:12	2051-24-3	
Lipid	Analytical Method: Pace Lipid								
Lipid	**0.60**	%		0.10	1		09/29/08 07:34		

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ANALYTICAL RESULTS

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 408330

Sample: BL-UR2-JWS8-G, 8/21/08 **Lab ID: 408330018** Collected: 08/21/08 00:00 Received: 08/28/08 14:50 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCBs, Tissue	Analytical Method: EPA 8082 Preparation Method: EPA 3540								
PCB-1016 (Aroclor 1016)	**<760**	ug/kg	2000	760	20	09/25/08 14:05	10/02/08 02:40	12674-11-2	
PCB-1221 (Aroclor 1221)	**<760**	ug/kg	2000	760	20	09/25/08 14:05	10/02/08 02:40	11104-28-2	
PCB-1232 (Aroclor 1232)	**<760**	ug/kg	2000	760	20	09/25/08 14:05	10/02/08 02:40	11141-16-5	
PCB-1242 (Aroclor 1242)	**<760**	ug/kg	2000	760	20	09/25/08 14:05	10/02/08 02:40	53469-21-9	
PCB-1248 (Aroclor 1248)	**4500**	ug/kg	2000	760	20	09/25/08 14:05	10/02/08 02:40	12672-29-6	
PCB-1254 (Aroclor 1254)	**5280**	ug/kg	2000	760	20	09/25/08 14:05	10/02/08 02:40	11097-69-1	
PCB-1260 (Aroclor 1260)	**<760**	ug/kg	2000	760	20	09/25/08 14:05	10/02/08 02:40	11096-82-5	
PCB, Total	**9780**	ug/kg	2000	760	20	09/25/08 14:05	10/02/08 02:40	1336-36-3	
Tetrachloro-m-xylene (S)	0	%	40-136		20	09/25/08 14:05	10/02/08 02:40	877-09-8	S4
Decachlorobiphenyl (S)	0	%	47-145		20	09/25/08 14:05	10/02/08 02:40	2051-24-3	S4
Lipid	Analytical Method: Pace Lipid								
Lipid	**0.51**	%		0.10	1		09/29/08 07:35		

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ANALYTICAL RESULTS

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 408330

Sample: BL-UR2-RB3-G, 8/21/08 **Lab ID: 408330019** Collected: 08/21/08 00:00 Received: 08/28/08 14:50 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCBs, Tissue	Analytical Method: EPA 8082 Preparation Method: EPA 3540								
PCB-1016 (Aroclor 1016)	**<760**	ug/kg	2000	760	20	09/25/08 14:05	10/02/08 03:08	12674-11-2	
PCB-1221 (Aroclor 1221)	**<760**	ug/kg	2000	760	20	09/25/08 14:05	10/02/08 03:08	11104-28-2	
PCB-1232 (Aroclor 1232)	**<760**	ug/kg	2000	760	20	09/25/08 14:05	10/02/08 03:08	11141-16-5	
PCB-1242 (Aroclor 1242)	**<760**	ug/kg	2000	760	20	09/25/08 14:05	10/02/08 03:08	53469-21-9	
PCB-1248 (Aroclor 1248)	**4410**	ug/kg	2000	760	20	09/25/08 14:05	10/02/08 03:08	12672-29-6	
PCB-1254 (Aroclor 1254)	**3840**	ug/kg	2000	760	20	09/25/08 14:05	10/02/08 03:08	11097-69-1	
PCB-1260 (Aroclor 1260)	**<760**	ug/kg	2000	760	20	09/25/08 14:05	10/02/08 03:08	11096-82-5	
PCB, Total	**8250**	ug/kg	2000	760	20	09/25/08 14:05	10/02/08 03:08	1336-36-3	
Tetrachloro-m-xylene (S)	0	%	40-136		20	09/25/08 14:05	10/02/08 03:08	877-09-8	S4
Decachlorobiphenyl (S)	0	%	47-145		20	09/25/08 14:05	10/02/08 03:08	2051-24-3	S4
Lipid	Analytical Method: Pace Lipid								
Lipid	**0.98**	%		0.10	1		09/29/08 07:35		

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ANALYTICAL RESULTS

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 408330

Sample: BL-UR2-RB4-G, 8/22/08 **Lab ID: 408330020** Collected: 08/22/08 00:00 Received: 08/28/08 14:50 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCBs, Tissue	Analytical Method: EPA 8082 Preparation Method: EPA 3540								
PCB-1016 (Aroclor 1016)	**<760**	ug/kg	2000	760	20	09/25/08 14:05	10/02/08 03:36	12674-11-2	
PCB-1221 (Aroclor 1221)	**<760**	ug/kg	2000	760	20	09/25/08 14:05	10/02/08 03:36	11104-28-2	
PCB-1232 (Aroclor 1232)	**<760**	ug/kg	2000	760	20	09/25/08 14:05	10/02/08 03:36	11141-16-5	
PCB-1242 (Aroclor 1242)	**<760**	ug/kg	2000	760	20	09/25/08 14:05	10/02/08 03:36	53469-21-9	
PCB-1248 (Aroclor 1248)	**4690**	ug/kg	2000	760	20	09/25/08 14:05	10/02/08 03:36	12672-29-6	
PCB-1254 (Aroclor 1254)	**4040**	ug/kg	2000	760	20	09/25/08 14:05	10/02/08 03:36	11097-69-1	
PCB-1260 (Aroclor 1260)	**<760**	ug/kg	2000	760	20	09/25/08 14:05	10/02/08 03:36	11096-82-5	
PCB, Total	**8720**	ug/kg	2000	760	20	09/25/08 14:05	10/02/08 03:36	1336-36-3	
Tetrachloro-m-xylene (S)	0	%	40-136		20	09/25/08 14:05	10/02/08 03:36	877-09-8	S4
Decachlorobiphenyl (S)	0	%	47-145		20	09/25/08 14:05	10/02/08 03:36	2051-24-3	S4
Lipid	Analytical Method: Pace Lipid								
Lipid	**1.2**	%		0.10	1		09/29/08 07:35		

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QUALITY CONTROL DATA

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 408330

QC Batch: OEXT/2776 Analysis Method: EPA 8082
QC Batch Method: EPA 3540 Analysis Description: 8082 GCS Tissue Pesticides
Associated Lab Samples: 408330001, 408330002, 408330003, 408330004, 408330005, 408330006, 408330007, 408330008, 408330009, 408330010, 408330011, 408330012, 408330013, 408330014, 408330015, 408330016, 408330017, 408330018, 408330019, 408330020

METHOD BLANK: 80750 Matrix: Tissue
Associated Lab Samples: 408330001, 408330002, 408330003, 408330004, 408330005, 408330006, 408330007, 408330008, 408330009, 408330010, 408330011, 408330012, 408330013, 408330014, 408330015, 408330016, 408330017, 408330018, 408330019, 408330020

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg	<19.0	50.0	10/01/08 15:53	
PCB-1221 (Aroclor 1221)	ug/kg	<19.0	50.0	10/01/08 15:53	
PCB-1232 (Aroclor 1232)	ug/kg	<19.0	50.0	10/01/08 15:53	
PCB-1242 (Aroclor 1242)	ug/kg	<19.0	50.0	10/01/08 15:53	
PCB-1248 (Aroclor 1248)	ug/kg	<19.0	50.0	10/01/08 15:53	
PCB-1254 (Aroclor 1254)	ug/kg	<19.0	50.0	10/01/08 15:53	
PCB-1260 (Aroclor 1260)	ug/kg	<19.0	50.0	10/01/08 15:53	
Decachlorobiphenyl (S)	%	94	47-145	10/01/08 15:53	
Tetrachloro-m-xylene (S)	%	93	40-136	10/01/08 15:53	

LABORATORY CONTROL SAMPLE: 80751

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg		<19.0			
PCB-1221 (Aroclor 1221)	ug/kg		<19.0			
PCB-1232 (Aroclor 1232)	ug/kg		<19.0			
PCB-1242 (Aroclor 1242)	ug/kg		<19.0			
PCB-1248 (Aroclor 1248)	ug/kg		<19.0			
PCB-1254 (Aroclor 1254)	ug/kg	250	261	104	40-128	
PCB-1260 (Aroclor 1260)	ug/kg		<19.0			
Decachlorobiphenyl (S)	%			98	47-145	
Tetrachloro-m-xylene (S)	%			94	40-136	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 80752 80753

Parameter	Units	408330003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
PCB-1016 (Aroclor 1016)	ug/kg	<380			<380	<380					56	
PCB-1221 (Aroclor 1221)	ug/kg	<380			<380	<380					56	
PCB-1232 (Aroclor 1232)	ug/kg	<380			<380	<380					56	
PCB-1242 (Aroclor 1242)	ug/kg	<380			<380	<380					56	
PCB-1248 (Aroclor 1248)	ug/kg	3000			2960	3060				3	56	
PCB-1254 (Aroclor 1254)	ug/kg	2050	1000	1000	2900	2940	86	89	43-130	1	56	
PCB-1260 (Aroclor 1260)	ug/kg	<380			<380	<380					56	
Decachlorobiphenyl (S)	%						0	0	47-145			S4
Tetrachloro-m-xylene (S)	%						0	0	40-136			S4

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 408330

QC Batch: OEXT/2785 Analysis Method: Pace Lipid
QC Batch Method: Pace Lipid Analysis Description: LIPID
Associated Lab Samples: 408330001, 408330002, 408330003, 408330004, 408330005, 408330006, 408330007, 408330008, 408330009, 408330010, 408330011, 408330012, 408330013, 408330014, 408330015, 408330016, 408330017, 408330018, 408330019, 408330020

METHOD BLANK: 81218 Matrix: Tissue
Associated Lab Samples: 408330001, 408330002, 408330003, 408330004, 408330005, 408330006, 408330007, 408330008, 408330009, 408330010, 408330011, 408330012, 408330013, 408330014, 408330015, 408330016, 408330017, 408330018, 408330019, 408330020

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lipid	%	<0.10		09/29/08 07:29	

SAMPLE DUPLICATE: 81219

Parameter	Units	408330003 Result	Dup Result	RPD	Max RPD	Qualifiers
Lipid	%	1.1	1.4	18	20	

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QUALIFIERS

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 408330

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

Pace Analytical is NELAP accredited. Contact your Pace PM for the current list of accredited analytes.

ANALYTE QUALIFIERS

S4 Surrogate recovery not evaluated against control limits due to sample dilution.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 408330

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
408330001	**BL-UR2-AWS2-G, 8/21/08**	EPA 3540	OEXT/2776	EPA 8082	GCSV/1946
408330002	**BL-UR2-SB6, 8/21/08**	EPA 3540	OEXT/2776	EPA 8082	GCSV/1946
408330003	**BL-UR2-AWS3-G, 8/21/08**	EPA 3540	OEXT/2776	EPA 8082	GCSV/1946
408330004	**BL-UR2-AC1-G, 8/21/08**	EPA 3540	OEXT/2776	EPA 8082	GCSV/1946
408330005	**BL-UR2-AC2-G, 8/21/08**	EPA 3540	OEXT/2776	EPA 8082	GCSV/1946
408330006	**BL-UR2-AC3-G, 8/21/08**	EPA 3540	OEXT/2776	EPA 8082	GCSV/1946
408330007	**BL-UR2-SB7-G, 8/21/08**	EPA 3540	OEXT/2776	EPA 8082	GCSV/1946
408330008	**BL-UR2-JWS1-G, 8/21/08**	EPA 3540	OEXT/2776	EPA 8082	GCSV/1946
408330009	**BL-UR2-JWS2-G, 8/21/08**	EPA 3540	OEXT/2776	EPA 8082	GCSV/1946
408330010	**BL-UR2-AWS4-G, 8/21/08**	EPA 3540	OEXT/2776	EPA 8082	GCSV/1946
408330011	**BL-UR2-AC4-G, 8/21/08**	EPA 3540	OEXT/2776	EPA 8082	GCSV/1946
408330012	**BL-UR2-SB8-G, 8/21/08**	EPA 3540	OEXT/2776	EPA 8082	GCSV/1946
408330013	**BL-UR2-JWS3-G, 8/21/08**	EPA 3540	OEXT/2776	EPA 8082	GCSV/1946
408330014	**BL-UR2-JWS4-G, 8/21/08**	EPA 3540	OEXT/2776	EPA 8082	GCSV/1946
408330015	**BL-UR2-JWS5-G, 8/21/08**	EPA 3540	OEXT/2776	EPA 8082	GCSV/1946
408330016	**BL-UR2-JWS6-G, 8/21/08**	EPA 3540	OEXT/2776	EPA 8082	GCSV/1946
408330017	**BL-UR2-JWS7-G, 8/21/08**	EPA 3540	OEXT/2776	EPA 8082	GCSV/1946
408330018	**BL-UR2-JWS8-G, 8/21/08**	EPA 3540	OEXT/2776	EPA 8082	GCSV/1946
408330019	**BL-UR2-RB3-G, 8/21/08**	EPA 3540	OEXT/2776	EPA 8082	GCSV/1946
408330020	**BL-UR2-RB4-G, 8/22/08**	EPA 3540	OEXT/2776	EPA 8082	GCSV/1946
408330001	**BL-UR2-AWS2-G, 8/21/08**	Pace Lipid	OEXT/2785		
408330002	**BL-UR2-SB6, 8/21/08**	Pace Lipid	OEXT/2785		
408330003	**BL-UR2-AWS3-G, 8/21/08**	Pace Lipid	OEXT/2785		
408330004	**BL-UR2-AC1-G, 8/21/08**	Pace Lipid	OEXT/2785		
408330005	**BL-UR2-AC2-G, 8/21/08**	Pace Lipid	OEXT/2785		
408330006	**BL-UR2-AC3-G, 8/21/08**	Pace Lipid	OEXT/2785		
408330007	**BL-UR2-SB7-G, 8/21/08**	Pace Lipid	OEXT/2785		
408330008	**BL-UR2-JWS1-G, 8/21/08**	Pace Lipid	OEXT/2785		
408330009	**BL-UR2-JWS2-G, 8/21/08**	Pace Lipid	OEXT/2785		
408330010	**BL-UR2-AWS4-G, 8/21/08**	Pace Lipid	OEXT/2785		
408330011	**BL-UR2-AC4-G, 8/21/08**	Pace Lipid	OEXT/2785		
408330012	**BL-UR2-SB8-G, 8/21/08**	Pace Lipid	OEXT/2785		
408330013	**BL-UR2-JWS3-G, 8/21/08**	Pace Lipid	OEXT/2785		
408330014	**BL-UR2-JWS4-G, 8/21/08**	Pace Lipid	OEXT/2785		
408330015	**BL-UR2-JWS5-G, 8/21/08**	Pace Lipid	OEXT/2785		
408330016	**BL-UR2-JWS6-G, 8/21/08**	Pace Lipid	OEXT/2785		
408330017	**BL-UR2-JWS7-G, 8/21/08**	Pace Lipid	OEXT/2785		
408330018	**BL-UR2-JWS8-G, 8/21/08**	Pace Lipid	OEXT/2785		
408330019	**BL-UR2-RB3-G, 8/21/08**	Pace Lipid	OEXT/2785		
408330020	**BL-UR2-RB4-G, 8/22/08**	Pace Lipid	OEXT/2785		

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October 15, 2008

BRANDY PROFFITT
POLLUTION RISK SERVICES
7870 EAST KEMPER ROAD
SUITE 240
Cincinnati, OH 45249

RE: Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 408211

Dear BRANDY PROFFITT:
Enclosed are the analytical results for sample(s) received by the laboratory on August 26, 2008. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Tod Noltemeyer

Tod Noltemeyer

tod.noltemeyer@pacelabs.com
Project Manager

Enclosures

REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 408211

Green Bay Certification IDs

Louisiana Certification #: 04169
Louisiana Certification #: 04168
Kentucky Certification #: 83
Kentucky Certification #: 82
Wisconsin DATCP Certification #: 105-444
Wisconsin DATCP Certification #: 105-444
Wisconsin Certification #: 405132750
Wisconsin Certification #: 405132750
South Carolina Certification #: 83006001
South Carolina Certification #: 83006001
Minnesota Certification #: 055-999-334
Minnesota Certification #: 055-999-334
North Carolina Certification #: 503
North Carolina Certification #: 503
North Dakota Certification #: R-200
North Dakota Certification #: R-150
New York Certification #: 11888
New York Certification #: 11887
Illinois Certification #: 200051
Illinois Certification #: 200050
Florida (NELAP) Certification #: E87951
Florida (NELAP) Certification #: E87948

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SAMPLE SUMMARY

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 408211

Lab ID	Sample ID	Matrix	Date Collected	Date Received
408211001	BL-UR1-JWS3-G, 8/19/08	Tissue	08/19/08 00:00	08/26/08 15:30
408211002	BL-UR1-RB2-G, 8/20/08	Tissue	08/20/08 00:00	08/26/08 15:30
408211003	BL-UR1-RB3-G, 8/20/08	Tissue	08/20/08 00:00	08/26/08 15:30
408211004	BL-UR1-RB4-G, 8/20/08	Tissue	08/20/08 00:00	08/26/08 15:30
408211005	BL-UR1-RB5-G, 8/20/08	Tissue	08/20/08 00:00	08/26/08 15:30
408211006	BL-UR1-RB6-G, 8/20/08	Tissue	08/20/08 00:00	08/26/08 15:30
408211007	BL-UR1-JWS5-G, 8/20/08	Tissue	08/20/08 00:00	08/26/08 15:30
408211008	BL-UR1-JWS6-G, 8/20/08	Tissue	08/20/08 00:00	08/26/08 15:30
408211009	BL-UR1-JWS7-G, 8/20/08	Tissue	08/20/08 00:00	08/26/08 15:30
408211010	BL-UR1-JWS8-G, 8/20/08	Tissue	08/20/08 00:00	08/26/08 15:30
408211011	BL-UR1-RB7-G, 8/20/08	Tissue	08/20/08 00:00	08/26/08 15:30
408211012	BL-UR1-RB8-G, 8/20/08	Tissue	08/20/08 00:00	08/26/08 15:30
408211013	BL-UR2-SB1-G, 8/21/08	Tissue	08/21/08 00:00	08/26/08 15:30
408211014	BL-UR2-SB2-G, 8/21/08	Tissue	08/21/08 00:00	08/26/08 15:30
408211015	BL-UR2-SB3-G, 8/21/08	Tissue	08/21/08 00:00	08/26/08 15:30
408211016	BL-UR2-RB1-G, 8/21/08	Tissue	08/21/08 00:00	08/26/08 15:30
408211017	BL-UR2-SB4-G, 8/21/08	Tissue	08/21/08 00:00	08/26/08 15:30
408211018	BL-UR2-RB2-G, 8/21/08	Tissue	08/21/08 00:00	08/26/08 15:30
408211019	BL-UR2-SB5-G, 8/21/08	Tissue	08/21/08 00:00	08/26/08 15:30
408211020	BL-UR2-AWS1-G, 8/21/08	Tissue	08/21/08 00:00	08/26/08 15:30

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SAMPLE ANALYTE COUNT

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 408211

Lab ID	Sample ID	Method	Analysts	Analytes Reported
408211001	BL-UR1-JWS3-G, 8/19/08	EPA 8082	BDS	10
		Pace Lipid	NJB	1
408211002	BL-UR1-RB2-G, 8/20/08	EPA 8082	BDS	10
		Pace Lipid	NJB	1
408211003	BL-UR1-RB3-G, 8/20/08	EPA 8082	BDS	10
		Pace Lipid	NJB	1
408211004	BL-UR1-RB4-G, 8/20/08	EPA 8082	BDS	10
		Pace Lipid	NJB	1
408211005	BL-UR1-RB5-G, 8/20/08	EPA 8082	BDS	10
		Pace Lipid	NJB	1
408211006	BL-UR1-RB6-G, 8/20/08	EPA 8082	BDS	10
		Pace Lipid	NJB	1
408211007	BL-UR1-JWS5-G, 8/20/08	EPA 8082	BDS	10
		Pace Lipid	NJB	1
408211008	BL-UR1-JWS6-G, 8/20/08	EPA 8082	BDS	10
		Pace Lipid	NJB	1
408211009	BL-UR1-JWS7-G, 8/20/08	EPA 8082	BDS	10
		Pace Lipid	NJB	1
408211010	BL-UR1-JWS8-G, 8/20/08	EPA 8082	BDS	10
		Pace Lipid	NJB	1
408211011	BL-UR1-RB7-G, 8/20/08	EPA 8082	BDS	10
		Pace Lipid	NJB	1
408211012	BL-UR1-RB8-G, 8/20/08	EPA 8082	BDS	10
		Pace Lipid	NJB	1
408211013	BL-UR2-SB1-G, 8/21/08	EPA 8082	BDS	10
		Pace Lipid	NJB	1
408211014	BL-UR2-SB2-G, 8/21/08	EPA 8082	BDS	10
		Pace Lipid	NJB	1
408211015	BL-UR2-SB3-G, 8/21/08	EPA 8082	BDS	10
		Pace Lipid	NJB	1
408211016	BL-UR2-RB1-G, 8/21/08	EPA 8082	BDS	10
		Pace Lipid	NJB	1
408211017	BL-UR2-SB4-G, 8/21/08	EPA 8082	BDS	10
		Pace Lipid	NJB	1
408211018	BL-UR2-RB2-G, 8/21/08	EPA 8082	BDS	10
		Pace Lipid	NJB	1
408211019	BL-UR2-SB5-G, 8/21/08	EPA 8082	BDS	10

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SAMPLE ANALYTE COUNT

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 408211

Lab ID	Sample ID	Method	Analysts	Analytes Reported
		Pace Lipid	NJB	1
408211020	**BL-UR2-AWS1-G, 8/21/08**	EPA 8082	BDS	10
		Pace Lipid	NJB	1

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PROJECT NARRATIVE

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 408211

Method: **EPA 8082**
Description: 8082 GCS PCBs, Tissue
Client: POLLUTION RISK SERVICES
Date: October 15, 2008

General Information:
20 samples were analyzed for EPA 8082. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 3540 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

QC Batch: OEXT/2742

S4: Surrogate recovery not evaluated against control limits due to sample dilution.

- BL-UR1-JWS5-G, 8/20/08 (Lab ID: 408211007)
  - Decachlorobiphenyl (S)
  - Tetrachloro-m-xylene (S)
- BL-UR1-JWS6-G, 8/20/08 (Lab ID: 408211008)
  - Decachlorobiphenyl (S)
  - Tetrachloro-m-xylene (S)
- BL-UR1-RB2-G, 8/20/08 (Lab ID: 408211002)
  - Decachlorobiphenyl (S)
  - Tetrachloro-m-xylene (S)
- BL-UR1-RB3-G, 8/20/08 (Lab ID: 408211003)
  - Decachlorobiphenyl (S)
  - Tetrachloro-m-xylene (S)
- BL-UR1-RB4-G, 8/20/08 (Lab ID: 408211004)
  - Decachlorobiphenyl (S)
  - Tetrachloro-m-xylene (S)
- BL-UR1-RB5-G, 8/20/08 (Lab ID: 408211005)
  - Decachlorobiphenyl (S)
  - Tetrachloro-m-xylene (S)
- BL-UR1-RB8-G, 8/20/08 (Lab ID: 408211012)
  - Decachlorobiphenyl (S)
  - Tetrachloro-m-xylene (S)
- BL-UR2-AWS1-G, 8/21/08 (Lab ID: 408211020)
  - Decachlorobiphenyl (S)
  - Tetrachloro-m-xylene (S)
- BL-UR2-RB2-G, 8/21/08 (Lab ID: 408211018)

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PROJECT NARRATIVE

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 408211

Method: **EPA 8082**
Description: 8082 GCS PCBs, Tissue
Client: POLLUTION RISK SERVICES
Date: October 15, 2008

QC Batch: OEXT/2742

S4: Surrogate recovery not evaluated against control limits due to sample dilution.

- Decachlorobiphenyl (S)
- Tetrachloro-m-xylene (S)
- BL-UR2-SB1-G, 8/21/08 (Lab ID: 408211013)
  - Decachlorobiphenyl (S)
  - Tetrachloro-m-xylene (S)
- BL-UR2-SB2-G, 8/21/08 (Lab ID: 408211014)
  - Decachlorobiphenyl (S)
  - Tetrachloro-m-xylene (S)
- BL-UR2-SB3-G, 8/21/08 (Lab ID: 408211015)
  - Decachlorobiphenyl (S)
  - Tetrachloro-m-xylene (S)
- BL-UR2-SB4-G, 8/21/08 (Lab ID: 408211017)
  - Decachlorobiphenyl (S)
  - Tetrachloro-m-xylene (S)
- MS (Lab ID: 79783)
  - Decachlorobiphenyl (S)
  - Tetrachloro-m-xylene (S)
- MSD (Lab ID: 79784)
  - Decachlorobiphenyl (S)
  - Tetrachloro-m-xylene (S)

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: OEXT/2742

A matrix spike and matrix spike duplicate (MS/MSD) were performed on the following sample(s): 408211019

M0: Matrix spike recovery was outside laboratory control limits.

- MS (Lab ID: 79783)
  - PCB-1254 (Aroclor 1254)
- MSD (Lab ID: 79784)
  - PCB-1254 (Aroclor 1254)

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 408211

Method: **Pace Lipid**
Description: Lipid
Client: POLLUTION RISK SERVICES
Date: October 15, 2008

General Information:
20 samples were analyzed for Pace Lipid. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

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ANALYTICAL RESULTS

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 408211

Sample: BL-UR1-JWS3-G, 8/19/08 **Lab ID: 408211001** Collected: 08/19/08 00:00 Received: 08/26/08 15:30 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCBs, Tissue	Analytical Method: EPA 8082 Preparation Method: EPA 3540								
PCB-1016 (Aroclor 1016)	**<390**	ug/kg	1030	390	10	09/23/08 15:21	09/30/08 16:33	12674-11-2	
PCB-1221 (Aroclor 1221)	**<390**	ug/kg	1030	390	10	09/23/08 15:21	09/30/08 16:33	11104-28-2	
PCB-1232 (Aroclor 1232)	**<390**	ug/kg	1030	390	10	09/23/08 15:21	09/30/08 16:33	11141-16-5	
PCB-1242 (Aroclor 1242)	**<390**	ug/kg	1030	390	10	09/23/08 15:21	09/30/08 16:33	53469-21-9	
PCB-1248 (Aroclor 1248)	**2810**	ug/kg	1030	390	10	09/23/08 15:21	09/30/08 16:33	12672-29-6	
PCB-1254 (Aroclor 1254)	**3270**	ug/kg	1030	390	10	09/23/08 15:21	09/30/08 16:33	11097-69-1	
PCB-1260 (Aroclor 1260)	**<390**	ug/kg	1030	390	10	09/23/08 15:21	09/30/08 16:33	11096-82-5	
PCB, Total	**6080**	ug/kg	1030	390	10	09/23/08 15:21	09/30/08 16:33	1336-36-3	
Tetrachloro-m-xylene (S)	92	%	40-136		10	09/23/08 15:21	09/30/08 16:33	877-09-8	
Decachlorobiphenyl (S)	102	%	47-145		10	09/23/08 15:21	09/30/08 16:33	2051-24-3	
Lipid	Analytical Method: Pace Lipid								
Lipid	**0.46**	%		0.10	1		09/25/08 09:40		

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ANALYTICAL RESULTS

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 408211

Sample: BL-UR1-RB2-G, 8/20/08 **Lab ID: 408211002** Collected: 08/20/08 00:00 Received: 08/26/08 15:30 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCBs, Tissue	Analytical Method: EPA 8082 Preparation Method: EPA 3540								
PCB-1016 (Aroclor 1016)	**<380**	ug/kg	1000	380	20	09/23/08 15:21	09/30/08 17:01	12674-11-2	
PCB-1221 (Aroclor 1221)	**<380**	ug/kg	1000	380	20	09/23/08 15:21	09/30/08 17:01	11104-28-2	
PCB-1232 (Aroclor 1232)	**<380**	ug/kg	1000	380	20	09/23/08 15:21	09/30/08 17:01	11141-16-5	
PCB-1242 (Aroclor 1242)	**<380**	ug/kg	1000	380	20	09/23/08 15:21	09/30/08 17:01	53469-21-9	
PCB-1248 (Aroclor 1248)	**3090**	ug/kg	1000	380	20	09/23/08 15:21	09/30/08 17:01	12672-29-6	
PCB-1254 (Aroclor 1254)	**2720**	ug/kg	1000	380	20	09/23/08 15:21	09/30/08 17:01	11097-69-1	
PCB-1260 (Aroclor 1260)	**<380**	ug/kg	1000	380	20	09/23/08 15:21	09/30/08 17:01	11096-82-5	
PCB, Total	**5820**	ug/kg	1000	380	20	09/23/08 15:21	09/30/08 17:01	1336-36-3	
Tetrachloro-m-xylene (S)	0	%	40-136		20	09/23/08 15:21	09/30/08 17:01	877-09-8	S4
Decachlorobiphenyl (S)	0	%	47-145		20	09/23/08 15:21	09/30/08 17:01	2051-24-3	S4
Lipid	Analytical Method: Pace Lipid								
Lipid	**0.59**	%		0.10	1		09/25/08 09:41		

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ANALYTICAL RESULTS

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 408211

Sample: BL-UR1-RB3-G, 8/20/08 **Lab ID: 408211003** Collected: 08/20/08 00:00 Received: 08/26/08 15:30 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCBs, Tissue	Analytical Method: EPA 8082 Preparation Method: EPA 3540								
PCB-1016 (Aroclor 1016)	**<1290**	ug/kg	3400	1290	50	09/23/08 15:21	09/30/08 17:29	12674-11-2	
PCB-1221 (Aroclor 1221)	**<1290**	ug/kg	3400	1290	50	09/23/08 15:21	09/30/08 17:29	11104-28-2	
PCB-1232 (Aroclor 1232)	**<1290**	ug/kg	3400	1290	50	09/23/08 15:21	09/30/08 17:29	11141-16-5	
PCB-1242 (Aroclor 1242)	**<1290**	ug/kg	3400	1290	50	09/23/08 15:21	09/30/08 17:29	53469-21-9	
PCB-1248 (Aroclor 1248)	**9060**	ug/kg	3400	1290	50	09/23/08 15:21	09/30/08 17:29	12672-29-6	
PCB-1254 (Aroclor 1254)	**7770**	ug/kg	3400	1290	50	09/23/08 15:21	09/30/08 17:29	11097-69-1	
PCB-1260 (Aroclor 1260)	**<1290**	ug/kg	3400	1290	50	09/23/08 15:21	09/30/08 17:29	11096-82-5	
PCB, Total	**16800**	ug/kg	3400	1290	50	09/23/08 15:21	09/30/08 17:29	1336-36-3	
Tetrachloro-m-xylene (S)	0	%	40-136		50	09/23/08 15:21	09/30/08 17:29	877-09-8	S4
Decachlorobiphenyl (S)	0	%	47-145		50	09/23/08 15:21	09/30/08 17:29	2051-24-3	S4
Lipid	Analytical Method: Pace Lipid								
Lipid	**0.77**	%		0.10	1		09/25/08 09:41		

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ANALYTICAL RESULTS

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 408211

Sample: BL-UR1-RB4-G, 8/20/08 **Lab ID: 408211004** Collected: 08/20/08 00:00 Received: 08/26/08 15:30 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCBs, Tissue	Analytical Method: EPA 8082 Preparation Method: EPA 3540								
PCB-1016 (Aroclor 1016)	**<950**	ug/kg	2500	950	50	09/23/08 15:21	09/30/08 17:57	12674-11-2	
PCB-1221 (Aroclor 1221)	**<950**	ug/kg	2500	950	50	09/23/08 15:21	09/30/08 17:57	11104-28-2	
PCB-1232 (Aroclor 1232)	**<950**	ug/kg	2500	950	50	09/23/08 15:21	09/30/08 17:57	11141-16-5	
PCB-1242 (Aroclor 1242)	**<950**	ug/kg	2500	950	50	09/23/08 15:21	09/30/08 17:57	53469-21-9	
PCB-1248 (Aroclor 1248)	**6430**	ug/kg	2500	950	50	09/23/08 15:21	09/30/08 17:57	12672-29-6	
PCB-1254 (Aroclor 1254)	**3920**	ug/kg	2500	950	50	09/23/08 15:21	09/30/08 17:57	11097-69-1	
PCB-1260 (Aroclor 1260)	**<950**	ug/kg	2500	950	50	09/23/08 15:21	09/30/08 17:57	11096-82-5	
PCB, Total	**10400**	ug/kg	2500	950	50	09/23/08 15:21	09/30/08 17:57	1336-36-3	
Tetrachloro-m-xylene (S)	0	%	40-136		50	09/23/08 15:21	09/30/08 17:57	877-09-8	S4
Decachlorobiphenyl (S)	0	%	47-145		50	09/23/08 15:21	09/30/08 17:57	2051-24-3	S4
Lipid	Analytical Method: Pace Lipid								
Lipid	**1.0**	%		0.10	1		09/25/08 09:41		

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ANALYTICAL RESULTS

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 408211

Sample: BL-UR1-RB5-G, 8/20/08 **Lab ID: 408211005** Collected: 08/20/08 00:00 Received: 08/26/08 15:30 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCBs, Tissue	Analytical Method: EPA 8082 Preparation Method: EPA 3540								
PCB-1016 (Aroclor 1016)	**<631**	ug/kg	1660	631	30	09/23/08 15:21	09/30/08 18:25	12674-11-2	
PCB-1221 (Aroclor 1221)	**<631**	ug/kg	1660	631	30	09/23/08 15:21	09/30/08 18:25	11104-28-2	
PCB-1232 (Aroclor 1232)	**<631**	ug/kg	1660	631	30	09/23/08 15:21	09/30/08 18:25	11141-16-5	
PCB-1242 (Aroclor 1242)	**<631**	ug/kg	1660	631	30	09/23/08 15:21	09/30/08 18:25	53469-21-9	
PCB-1248 (Aroclor 1248)	**4840**	ug/kg	1660	631	30	09/23/08 15:21	09/30/08 18:25	12672-29-6	
PCB-1254 (Aroclor 1254)	**3070**	ug/kg	1660	631	30	09/23/08 15:21	09/30/08 18:25	11097-69-1	
PCB-1260 (Aroclor 1260)	**<631**	ug/kg	1660	631	30	09/23/08 15:21	09/30/08 18:25	11096-82-5	
PCB, Total	**7910**	ug/kg	1660	631	30	09/23/08 15:21	09/30/08 18:25	1336-36-3	
Tetrachloro-m-xylene (S)	0	%	40-136		30	09/23/08 15:21	09/30/08 18:25	877-09-8	S4
Decachlorobiphenyl (S)	0	%	47-145		30	09/23/08 15:21	09/30/08 18:25	2051-24-3	S4
Lipid	Analytical Method: Pace Lipid								
Lipid	**0.58**	%		0.10	1		09/25/08 09:41		

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ANALYTICAL RESULTS

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 408211

Sample: BL-UR1-RB6-G, 8/20/08 **Lab ID: 408211006** Collected: 08/20/08 00:00 Received: 08/26/08 15:30 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCBs, Tissue	Analytical Method: EPA 8082 Preparation Method: EPA 3540								
PCB-1016 (Aroclor 1016)	**<95.0**	ug/kg	250	95.0	5	09/23/08 15:21	09/30/08 18:53	12674-11-2	
PCB-1221 (Aroclor 1221)	**<95.0**	ug/kg	250	95.0	5	09/23/08 15:21	09/30/08 18:53	11104-28-2	
PCB-1232 (Aroclor 1232)	**<95.0**	ug/kg	250	95.0	5	09/23/08 15:21	09/30/08 18:53	11141-16-5	
PCB-1242 (Aroclor 1242)	**<95.0**	ug/kg	250	95.0	5	09/23/08 15:21	09/30/08 18:53	53469-21-9	
PCB-1248 (Aroclor 1248)	**566**	ug/kg	250	95.0	5	09/23/08 15:21	09/30/08 18:53	12672-29-6	
PCB-1254 (Aroclor 1254)	**659**	ug/kg	250	95.0	5	09/23/08 15:21	09/30/08 18:53	11097-69-1	
PCB-1260 (Aroclor 1260)	**<95.0**	ug/kg	250	95.0	5	09/23/08 15:21	09/30/08 18:53	11096-82-5	
PCB, Total	**1220**	ug/kg	250	95.0	5	09/23/08 15:21	09/30/08 18:53	1336-36-3	
Tetrachloro-m-xylene (S)	87	%	40-136		5	09/23/08 15:21	09/30/08 18:53	877-09-8	
Decachlorobiphenyl (S)	94	%	47-145		5	09/23/08 15:21	09/30/08 18:53	2051-24-3	
Lipid	Analytical Method: Pace Lipid								
Lipid	**0.32**	%		0.10	1		09/25/08 09:41		

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ANALYTICAL RESULTS

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 408211

Sample: BL-UR1-JWS5-G, 8/20/08 **Lab ID: 408211007** Collected: 08/20/08 00:00 Received: 08/26/08 15:30 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCBs, Tissue	Analytical Method: EPA 8082 Preparation Method: EPA 3540								
PCB-1016 (Aroclor 1016)	**<570**	ug/kg	1500	570	30	09/23/08 15:21	09/30/08 19:21	12674-11-2	
PCB-1221 (Aroclor 1221)	**<570**	ug/kg	1500	570	30	09/23/08 15:21	09/30/08 19:21	11104-28-2	
PCB-1232 (Aroclor 1232)	**<570**	ug/kg	1500	570	30	09/23/08 15:21	09/30/08 19:21	11141-16-5	
PCB-1242 (Aroclor 1242)	**<570**	ug/kg	1500	570	30	09/23/08 15:21	09/30/08 19:21	53469-21-9	
PCB-1248 (Aroclor 1248)	**2440**	ug/kg	1500	570	30	09/23/08 15:21	09/30/08 19:21	12672-29-6	
PCB-1254 (Aroclor 1254)	**5320**	ug/kg	1500	570	30	09/23/08 15:21	09/30/08 19:21	11097-69-1	
PCB-1260 (Aroclor 1260)	**<570**	ug/kg	1500	570	30	09/23/08 15:21	09/30/08 19:21	11096-82-5	
PCB, Total	**7760**	ug/kg	1500	570	30	09/23/08 15:21	09/30/08 19:21	1336-36-3	
Tetrachloro-m-xylene (S)	0	%	40-136		30	09/23/08 15:21	09/30/08 19:21	877-09-8	S4
Decachlorobiphenyl (S)	0	%	47-145		30	09/23/08 15:21	09/30/08 19:21	2051-24-3	S4
Lipid	Analytical Method: Pace Lipid								
Lipid	**0.33**	%		0.10	1		09/25/08 09:42		

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ANALYTICAL RESULTS

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 408211

Sample: BL-UR1-JWS6-G, 8/20/08 **Lab ID: 408211008** Collected: 08/20/08 00:00 Received: 08/26/08 15:30 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCBs, Tissue	Analytical Method: EPA 8082 Preparation Method: EPA 3540								
PCB-1016 (Aroclor 1016)	**<445**	ug/kg	1170	445	20	09/23/08 15:21	09/30/08 19:49	12674-11-2	
PCB-1221 (Aroclor 1221)	**<445**	ug/kg	1170	445	20	09/23/08 15:21	09/30/08 19:49	11104-28-2	
PCB-1232 (Aroclor 1232)	**<445**	ug/kg	1170	445	20	09/23/08 15:21	09/30/08 19:49	11141-16-5	
PCB-1242 (Aroclor 1242)	**<445**	ug/kg	1170	445	20	09/23/08 15:21	09/30/08 19:49	53469-21-9	
PCB-1248 (Aroclor 1248)	**3080**	ug/kg	1170	445	20	09/23/08 15:21	09/30/08 19:49	12672-29-6	
PCB-1254 (Aroclor 1254)	**3420**	ug/kg	1170	445	20	09/23/08 15:21	09/30/08 19:49	11097-69-1	
PCB-1260 (Aroclor 1260)	**<445**	ug/kg	1170	445	20	09/23/08 15:21	09/30/08 19:49	11096-82-5	
PCB, Total	**6510**	ug/kg	1170	445	20	09/23/08 15:21	09/30/08 19:49	1336-36-3	
Tetrachloro-m-xylene (S)	0	%	40-136		20	09/23/08 15:21	09/30/08 19:49	877-09-8	S4
Decachlorobiphenyl (S)	0	%	47-145		20	09/23/08 15:21	09/30/08 19:49	2051-24-3	S4
Lipid	Analytical Method: Pace Lipid								
Lipid	**0.64**	%		0.10	1		09/25/08 09:42		

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ANALYTICAL RESULTS

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 408211

Sample: BL-UR1-JWS7-G, 8/20/08 **Lab ID: 408211009** Collected: 08/20/08 00:00 Received: 08/26/08 15:30 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCBs, Tissue	Analytical Method: EPA 8082 Preparation Method: EPA 3540								
PCB-1016 (Aroclor 1016)	**<107**	ug/kg	281	107	5	09/23/08 15:21	09/30/08 21:13	12674-11-2	
PCB-1221 (Aroclor 1221)	**<107**	ug/kg	281	107	5	09/23/08 15:21	09/30/08 21:13	11104-28-2	
PCB-1232 (Aroclor 1232)	**<107**	ug/kg	281	107	5	09/23/08 15:21	09/30/08 21:13	11141-16-5	
PCB-1242 (Aroclor 1242)	**<107**	ug/kg	281	107	5	09/23/08 15:21	09/30/08 21:13	53469-21-9	
PCB-1248 (Aroclor 1248)	**816**	ug/kg	281	107	5	09/23/08 15:21	09/30/08 21:13	12672-29-6	
PCB-1254 (Aroclor 1254)	**1280**	ug/kg	281	107	5	09/23/08 15:21	09/30/08 21:13	11097-69-1	
PCB-1260 (Aroclor 1260)	**186J**	ug/kg	281	107	5	09/23/08 15:21	09/30/08 21:13	11096-82-5	
PCB, Total	**2280**	ug/kg	281	107	5	09/23/08 15:21	09/30/08 21:13	1336-36-3	
Tetrachloro-m-xylene (S)	76	%	40-136		5	09/23/08 15:21	09/30/08 21:13	877-09-8	
Decachlorobiphenyl (S)	81	%	47-145		5	09/23/08 15:21	09/30/08 21:13	2051-24-3	
Lipid	Analytical Method: Pace Lipid								
Lipid	**0.28**	%		0.10	1		09/25/08 09:42		

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ANALYTICAL RESULTS

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 408211

Sample: BL-UR1-JWS8-G, 8/20/08 **Lab ID: 408211010** Collected: 08/20/08 00:00 Received: 08/26/08 15:30 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCBs, Tissue	Analytical Method: EPA 8082 Preparation Method: EPA 3540								
PCB-1016 (Aroclor 1016)	**<134**	ug/kg	353	134	5	09/23/08 15:21	09/30/08 21:41	12674-11-2	
PCB-1221 (Aroclor 1221)	**<134**	ug/kg	353	134	5	09/23/08 15:21	09/30/08 21:41	11104-28-2	
PCB-1232 (Aroclor 1232)	**<134**	ug/kg	353	134	5	09/23/08 15:21	09/30/08 21:41	11141-16-5	
PCB-1242 (Aroclor 1242)	**<134**	ug/kg	353	134	5	09/23/08 15:21	09/30/08 21:41	53469-21-9	
PCB-1248 (Aroclor 1248)	**900**	ug/kg	353	134	5	09/23/08 15:21	09/30/08 21:41	12672-29-6	
PCB-1254 (Aroclor 1254)	**1090**	ug/kg	353	134	5	09/23/08 15:21	09/30/08 21:41	11097-69-1	
PCB-1260 (Aroclor 1260)	**<134**	ug/kg	353	134	5	09/23/08 15:21	09/30/08 21:41	11096-82-5	
PCB, Total	**1990**	ug/kg	353	134	5	09/23/08 15:21	09/30/08 21:41	1336-36-3	
Tetrachloro-m-xylene (S)	95	%	40-136		5	09/23/08 15:21	09/30/08 21:41	877-09-8	
Decachlorobiphenyl (S)	100	%	47-145		5	09/23/08 15:21	09/30/08 21:41	2051-24-3	
Lipid	Analytical Method: Pace Lipid								
Lipid	**0.28**	%		0.10	1		09/25/08 09:42		

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ANALYTICAL RESULTS

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 408211

Sample: BL-UR1-RB7-G, 8/20/08 **Lab ID: 408211011** Collected: 08/20/08 00:00 Received: 08/26/08 15:30 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCBs, Tissue	Analytical Method: EPA 8082 Preparation Method: EPA 3540								
PCB-1016 (Aroclor 1016)	**<95.0**	ug/kg	250	95.0	5	09/23/08 15:21	09/30/08 22:09	12674-11-2	
PCB-1221 (Aroclor 1221)	**<95.0**	ug/kg	250	95.0	5	09/23/08 15:21	09/30/08 22:09	11104-28-2	
PCB-1232 (Aroclor 1232)	**<95.0**	ug/kg	250	95.0	5	09/23/08 15:21	09/30/08 22:09	11141-16-5	
PCB-1242 (Aroclor 1242)	**<95.0**	ug/kg	250	95.0	5	09/23/08 15:21	09/30/08 22:09	53469-21-9	
PCB-1248 (Aroclor 1248)	**969**	ug/kg	250	95.0	5	09/23/08 15:21	09/30/08 22:09	12672-29-6	
PCB-1254 (Aroclor 1254)	**598**	ug/kg	250	95.0	5	09/23/08 15:21	09/30/08 22:09	11097-69-1	
PCB-1260 (Aroclor 1260)	**<95.0**	ug/kg	250	95.0	5	09/23/08 15:21	09/30/08 22:09	11096-82-5	
PCB, Total	**1570**	ug/kg	250	95.0	5	09/23/08 15:21	09/30/08 22:09	1336-36-3	
Tetrachloro-m-xylene (S)	97	%	40-136		5	09/23/08 15:21	09/30/08 22:09	877-09-8	
Decachlorobiphenyl (S)	105	%	47-145		5	09/23/08 15:21	09/30/08 22:09	2051-24-3	
Lipid	Analytical Method: Pace Lipid								
Lipid	**0.48**	%		0.10	1		09/25/08 09:43		

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ANALYTICAL RESULTS

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 408211

Sample: BL-UR1-RB8-G, 8/20/08 **Lab ID: 408211012** Collected: 08/20/08 00:00 Received: 08/26/08 15:30 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCBs, Tissue	Analytical Method: EPA 8082 Preparation Method: EPA 3540								
PCB-1016 (Aroclor 1016)	**<431**	ug/kg	1140	431	20	09/23/08 15:21	09/30/08 22:36	12674-11-2	
PCB-1221 (Aroclor 1221)	**<431**	ug/kg	1140	431	20	09/23/08 15:21	09/30/08 22:36	11104-28-2	
PCB-1232 (Aroclor 1232)	**<431**	ug/kg	1140	431	20	09/23/08 15:21	09/30/08 22:36	11141-16-5	
PCB-1242 (Aroclor 1242)	**<431**	ug/kg	1140	431	20	09/23/08 15:21	09/30/08 22:36	53469-21-9	
PCB-1248 (Aroclor 1248)	**3120**	ug/kg	1140	431	20	09/23/08 15:21	09/30/08 22:36	12672-29-6	
PCB-1254 (Aroclor 1254)	**2180**	ug/kg	1140	431	20	09/23/08 15:21	09/30/08 22:36	11097-69-1	
PCB-1260 (Aroclor 1260)	**<431**	ug/kg	1140	431	20	09/23/08 15:21	09/30/08 22:36	11096-82-5	
PCB, Total	**5300**	ug/kg	1140	431	20	09/23/08 15:21	09/30/08 22:36	1336-36-3	
Tetrachloro-m-xylene (S)	0	%	40-136		20	09/23/08 15:21	09/30/08 22:36	877-09-8	S4
Decachlorobiphenyl (S)	0	%	47-145		20	09/23/08 15:21	09/30/08 22:36	2051-24-3	S4
Lipid	Analytical Method: Pace Lipid								
Lipid	**0.62**	%		0.10	1		09/25/08 09:43		

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ANALYTICAL RESULTS

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 408211

Sample: BL-UR2-SB1-G, 8/21/08 **Lab ID: 408211013** Collected: 08/21/08 00:00 Received: 08/26/08 15:30 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCBs, Tissue	Analytical Method: EPA 8082 Preparation Method: EPA 3540								
PCB-1016 (Aroclor 1016)	**<1900**	ug/kg	5000	1900	100	09/23/08 15:21	09/30/08 23:04	12674-11-2	
PCB-1221 (Aroclor 1221)	**<1900**	ug/kg	5000	1900	100	09/23/08 15:21	09/30/08 23:04	11104-28-2	
PCB-1232 (Aroclor 1232)	**<1900**	ug/kg	5000	1900	100	09/23/08 15:21	09/30/08 23:04	11141-16-5	
PCB-1242 (Aroclor 1242)	**<1900**	ug/kg	5000	1900	100	09/23/08 15:21	09/30/08 23:04	53469-21-9	
PCB-1248 (Aroclor 1248)	**13500**	ug/kg	5000	1900	100	09/23/08 15:21	09/30/08 23:04	12672-29-6	
PCB-1254 (Aroclor 1254)	**15400**	ug/kg	5000	1900	100	09/23/08 15:21	09/30/08 23:04	11097-69-1	
PCB-1260 (Aroclor 1260)	**<1900**	ug/kg	5000	1900	100	09/23/08 15:21	09/30/08 23:04	11096-82-5	
PCB, Total	**28900**	ug/kg	5000	1900	100	09/23/08 15:21	09/30/08 23:04	1336-36-3	
Tetrachloro-m-xylene (S)	0	%	40-136		100	09/23/08 15:21	09/30/08 23:04	877-09-8	S4
Decachlorobiphenyl (S)	0	%	47-145		100	09/23/08 15:21	09/30/08 23:04	2051-24-3	S4
Lipid	Analytical Method: Pace Lipid								
Lipid	**1.8**	%		0.10	1		09/25/08 09:43		

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ANALYTICAL RESULTS

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 408211

Sample: BL-UR2-SB2-G, 8/21/08 **Lab ID: 408211014** Collected: 08/21/08 00:00 Received: 08/26/08 15:30 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCBs, Tissue	Analytical Method: EPA 8082 Preparation Method: EPA 3540								
PCB-1016 (Aroclor 1016)	**<380**	ug/kg	1000	380	20	09/23/08 15:21	09/30/08 23:32	12674-11-2	
PCB-1221 (Aroclor 1221)	**<380**	ug/kg	1000	380	20	09/23/08 15:21	09/30/08 23:32	11104-28-2	
PCB-1232 (Aroclor 1232)	**<380**	ug/kg	1000	380	20	09/23/08 15:21	09/30/08 23:32	11141-16-5	
PCB-1242 (Aroclor 1242)	**<380**	ug/kg	1000	380	20	09/23/08 15:21	09/30/08 23:32	53469-21-9	
PCB-1248 (Aroclor 1248)	**2990**	ug/kg	1000	380	20	09/23/08 15:21	09/30/08 23:32	12672-29-6	
PCB-1254 (Aroclor 1254)	**2350**	ug/kg	1000	380	20	09/23/08 15:21	09/30/08 23:32	11097-69-1	
PCB-1260 (Aroclor 1260)	**<380**	ug/kg	1000	380	20	09/23/08 15:21	09/30/08 23:32	11096-82-5	
PCB, Total	**5340**	ug/kg	1000	380	20	09/23/08 15:21	09/30/08 23:32	1336-36-3	
Tetrachloro-m-xylene (S)	0	%	40-136		20	09/23/08 15:21	09/30/08 23:32	877-09-8	S4
Decachlorobiphenyl (S)	0	%	47-145		20	09/23/08 15:21	09/30/08 23:32	2051-24-3	S4
Lipid	Analytical Method: Pace Lipid								
Lipid	**0.78**	%		0.10	1		09/25/08 09:43		

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ANALYTICAL RESULTS

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 408211

Sample: BL-UR2-SB3-G, 8/21/08 **Lab ID: 408211015** Collected: 08/21/08 00:00 Received: 08/26/08 15:30 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCBs, Tissue	Analytical Method: EPA 8082 Preparation Method: EPA 3540								
PCB-1016 (Aroclor 1016)	**<950**	ug/kg	2500	950	50	09/23/08 15:21	10/01/08 00:00	12674-11-2	
PCB-1221 (Aroclor 1221)	**<950**	ug/kg	2500	950	50	09/23/08 15:21	10/01/08 00:00	11104-28-2	
PCB-1232 (Aroclor 1232)	**<950**	ug/kg	2500	950	50	09/23/08 15:21	10/01/08 00:00	11141-16-5	
PCB-1242 (Aroclor 1242)	**<950**	ug/kg	2500	950	50	09/23/08 15:21	10/01/08 00:00	53469-21-9	
PCB-1248 (Aroclor 1248)	**7560**	ug/kg	2500	950	50	09/23/08 15:21	10/01/08 00:00	12672-29-6	
PCB-1254 (Aroclor 1254)	**7300**	ug/kg	2500	950	50	09/23/08 15:21	10/01/08 00:00	11097-69-1	
PCB-1260 (Aroclor 1260)	**<950**	ug/kg	2500	950	50	09/23/08 15:21	10/01/08 00:00	11096-82-5	
PCB, Total	**14900**	ug/kg	2500	950	50	09/23/08 15:21	10/01/08 00:00	1336-36-3	
Tetrachloro-m-xylene (S)	0	%	40-136		50	09/23/08 15:21	10/01/08 00:00	877-09-8	S4
Decachlorobiphenyl (S)	0	%	47-145		50	09/23/08 15:21	10/01/08 00:00	2051-24-3	S4
Lipid	Analytical Method: Pace Lipid								
Lipid	**1.2**	%		0.10	1		09/25/08 09:43		

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ANALYTICAL RESULTS

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 408211

Sample: BL-UR2-RB1-G, 8/21/08 **Lab ID: 408211016** Collected: 08/21/08 00:00 Received: 08/26/08 15:30 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCBs, Tissue	Analytical Method: EPA 8082 Preparation Method: EPA 3540								
PCB-1016 (Aroclor 1016)	**<76.0**	ug/kg	200	76.0	4	09/23/08 15:21	10/01/08 00:28	12674-11-2	
PCB-1221 (Aroclor 1221)	**<76.0**	ug/kg	200	76.0	4	09/23/08 15:21	10/01/08 00:28	11104-28-2	
PCB-1232 (Aroclor 1232)	**<76.0**	ug/kg	200	76.0	4	09/23/08 15:21	10/01/08 00:28	11141-16-5	
PCB-1242 (Aroclor 1242)	**<76.0**	ug/kg	200	76.0	4	09/23/08 15:21	10/01/08 00:28	53469-21-9	
PCB-1248 (Aroclor 1248)	**651**	ug/kg	200	76.0	4	09/23/08 15:21	10/01/08 00:28	12672-29-6	
PCB-1254 (Aroclor 1254)	**393**	ug/kg	200	76.0	4	09/23/08 15:21	10/01/08 00:28	11097-69-1	
PCB-1260 (Aroclor 1260)	**<76.0**	ug/kg	200	76.0	4	09/23/08 15:21	10/01/08 00:28	11096-82-5	
PCB, Total	**1040**	ug/kg	200	76.0	4	09/23/08 15:21	10/01/08 00:28	1336-36-3	
Tetrachloro-m-xylene (S)	91	%	40-136		4	09/23/08 15:21	10/01/08 00:28	877-09-8	
Decachlorobiphenyl (S)	98	%	47-145		4	09/23/08 15:21	10/01/08 00:28	2051-24-3	
Lipid	Analytical Method: Pace Lipid								
Lipid	**0.40**	%		0.10	1		09/25/08 09:44		

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Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 408211

Sample: BL-UR2-SB4-G, 8/21/08 **Lab ID: 408211017** Collected: 08/21/08 00:00 Received: 08/26/08 15:30 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCBs, Tissue	Analytical Method: EPA 8082 Preparation Method: EPA 3540								
PCB-1016 (Aroclor 1016)	**<1900**	ug/kg	5000	1900	100	09/23/08 15:21	10/01/08 00:56	12674-11-2	
PCB-1221 (Aroclor 1221)	**<1900**	ug/kg	5000	1900	100	09/23/08 15:21	10/01/08 00:56	11104-28-2	
PCB-1232 (Aroclor 1232)	**<1900**	ug/kg	5000	1900	100	09/23/08 15:21	10/01/08 00:56	11141-16-5	
PCB-1242 (Aroclor 1242)	**<1900**	ug/kg	5000	1900	100	09/23/08 15:21	10/01/08 00:56	53469-21-9	
PCB-1248 (Aroclor 1248)	**15900**	ug/kg	5000	1900	100	09/23/08 15:21	10/01/08 00:56	12672-29-6	
PCB-1254 (Aroclor 1254)	**17500**	ug/kg	5000	1900	100	09/23/08 15:21	10/01/08 00:56	11097-69-1	
PCB-1260 (Aroclor 1260)	**<1900**	ug/kg	5000	1900	100	09/23/08 15:21	10/01/08 00:56	11096-82-5	
PCB, Total	**33500**	ug/kg	5000	1900	100	09/23/08 15:21	10/01/08 00:56	1336-36-3	
Tetrachloro-m-xylene (S)	0	%	40-136		100	09/23/08 15:21	10/01/08 00:56	877-09-8	S4
Decachlorobiphenyl (S)	0	%	47-145		100	09/23/08 15:21	10/01/08 00:56	2051-24-3	S4
Lipid	Analytical Method: Pace Lipid								
Lipid	**1.7**	%		0.10	1		09/25/08 09:44		

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ANALYTICAL RESULTS

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 408211

Sample: BL-UR2-RB2-G, 8/21/08 **Lab ID: 408211018** Collected: 08/21/08 00:00 Received: 08/26/08 15:30 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCBs, Tissue	Analytical Method: EPA 8082 Preparation Method: EPA 3540								
PCB-1016 (Aroclor 1016)	**<380**	ug/kg	1000	380	20	09/23/08 15:21	10/01/08 01:24	12674-11-2	
PCB-1221 (Aroclor 1221)	**<380**	ug/kg	1000	380	20	09/23/08 15:21	10/01/08 01:24	11104-28-2	
PCB-1232 (Aroclor 1232)	**<380**	ug/kg	1000	380	20	09/23/08 15:21	10/01/08 01:24	11141-16-5	
PCB-1242 (Aroclor 1242)	**<380**	ug/kg	1000	380	20	09/23/08 15:21	10/01/08 01:24	53469-21-9	
PCB-1248 (Aroclor 1248)	**2260**	ug/kg	1000	380	20	09/23/08 15:21	10/01/08 01:24	12672-29-6	
PCB-1254 (Aroclor 1254)	**1980**	ug/kg	1000	380	20	09/23/08 15:21	10/01/08 01:24	11097-69-1	
PCB-1260 (Aroclor 1260)	**<380**	ug/kg	1000	380	20	09/23/08 15:21	10/01/08 01:24	11096-82-5	
PCB, Total	**4240**	ug/kg	1000	380	20	09/23/08 15:21	10/01/08 01:24	1336-36-3	
Tetrachloro-m-xylene (S)	0	%	40-136		20	09/23/08 15:21	10/01/08 01:24	877-09-8	S4
Decachlorobiphenyl (S)	0	%	47-145		20	09/23/08 15:21	10/01/08 01:24	2051-24-3	S4
Lipid	Analytical Method: Pace Lipid								
Lipid	**0.67**	%		0.10	1		09/25/08 09:44		

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ANALYTICAL RESULTS

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 408211

Sample: BL-UR2-SB5-G, 8/21/08 **Lab ID: 408211019** Collected: 08/21/08 00:00 Received: 08/26/08 15:30 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCBs, Tissue	Analytical Method: EPA 8082 Preparation Method: EPA 3540								
PCB-1016 (Aroclor 1016)	**<190**	ug/kg	500	190	10	09/23/08 15:21	10/01/08 01:52	12674-11-2	
PCB-1221 (Aroclor 1221)	**<190**	ug/kg	500	190	10	09/23/08 15:21	10/01/08 01:52	11104-28-2	
PCB-1232 (Aroclor 1232)	**<190**	ug/kg	500	190	10	09/23/08 15:21	10/01/08 01:52	11141-16-5	
PCB-1242 (Aroclor 1242)	**<190**	ug/kg	500	190	10	09/23/08 15:21	10/01/08 01:52	53469-21-9	
PCB-1248 (Aroclor 1248)	**1770**	ug/kg	500	190	10	09/23/08 15:21	10/01/08 01:52	12672-29-6	
PCB-1254 (Aroclor 1254)	**1350**	ug/kg	500	190	10	09/23/08 15:21	10/01/08 01:52	11097-69-1	M0
PCB-1260 (Aroclor 1260)	**<190**	ug/kg	500	190	10	09/23/08 15:21	10/01/08 01:52	11096-82-5	
PCB, Total	**3120**	ug/kg	500	190	10	09/23/08 15:21	10/01/08 01:52	1336-36-3	
Tetrachloro-m-xylene (S)	75	%	40-136		10	09/23/08 15:21	10/01/08 01:52	877-09-8	
Decachlorobiphenyl (S)	89	%	47-145		10	09/23/08 15:21	10/01/08 01:52	2051-24-3	
Lipid	Analytical Method: Pace Lipid								
Lipid	**1.3**	%		0.10	1		09/25/08 09:44		

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ANALYTICAL RESULTS

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 408211

Sample: BL-UR2-AWS1-G, 8/21/08 **Lab ID: 408211020** Collected: 08/21/08 00:00 Received: 08/26/08 15:30 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCBs, Tissue	Analytical Method: EPA 8082 Preparation Method: EPA 3540								
PCB-1016 (Aroclor 1016)	**<570**	ug/kg	1500	570	30	09/23/08 15:21	10/01/08 02:20	12674-11-2	
PCB-1221 (Aroclor 1221)	**<570**	ug/kg	1500	570	30	09/23/08 15:21	10/01/08 02:20	11104-28-2	
PCB-1232 (Aroclor 1232)	**<570**	ug/kg	1500	570	30	09/23/08 15:21	10/01/08 02:20	11141-16-5	
PCB-1242 (Aroclor 1242)	**<570**	ug/kg	1500	570	30	09/23/08 15:21	10/01/08 02:20	53469-21-9	
PCB-1248 (Aroclor 1248)	**6450**	ug/kg	1500	570	30	09/23/08 15:21	10/01/08 02:20	12672-29-6	
PCB-1254 (Aroclor 1254)	**4400**	ug/kg	1500	570	30	09/23/08 15:21	10/01/08 02:20	11097-69-1	
PCB-1260 (Aroclor 1260)	**<570**	ug/kg	1500	570	30	09/23/08 15:21	10/01/08 02:20	11096-82-5	
PCB, Total	**10800**	ug/kg	1500	570	30	09/23/08 15:21	10/01/08 02:20	1336-36-3	
Tetrachloro-m-xylene (S)	0	%	40-136		30	09/23/08 15:21	10/01/08 02:20	877-09-8	S4
Decachlorobiphenyl (S)	0	%	47-145		30	09/23/08 15:21	10/01/08 02:20	2051-24-3	S4
Lipid	Analytical Method: Pace Lipid								
Lipid	**0.96**	%		0.10	1		09/25/08 09:45		

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QUALITY CONTROL DATA

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 408211

QC Batch: OEXT/2742 Analysis Method: EPA 8082
QC Batch Method: EPA 3540 Analysis Description: 8082 GCS Tissue Pesticides
Associated Lab Samples: 408211001, 408211002, 408211003, 408211004, 408211005, 408211006, 408211007, 408211008, 408211009, 408211010, 408211011, 408211012, 408211013, 408211014, 408211015, 408211016, 408211017, 408211018, 408211019, 408211020

METHOD BLANK: 79771 Matrix: Tissue
Associated Lab Samples: 408211001, 408211002, 408211003, 408211004, 408211005, 408211006, 408211007, 408211008, 408211009, 408211010, 408211011, 408211012, 408211013, 408211014, 408211015, 408211016, 408211017, 408211018, 408211019, 408211020

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg	<19.0	50.0	09/30/08 14:41	
PCB-1221 (Aroclor 1221)	ug/kg	<19.0	50.0	09/30/08 14:41	
PCB-1232 (Aroclor 1232)	ug/kg	<19.0	50.0	09/30/08 14:41	
PCB-1242 (Aroclor 1242)	ug/kg	<19.0	50.0	09/30/08 14:41	
PCB-1248 (Aroclor 1248)	ug/kg	<19.0	50.0	09/30/08 14:41	
PCB-1254 (Aroclor 1254)	ug/kg	<19.0	50.0	09/30/08 14:41	
PCB-1260 (Aroclor 1260)	ug/kg	<19.0	50.0	09/30/08 14:41	
Decachlorobiphenyl (S)	%	95	47-145	09/30/08 14:41	
Tetrachloro-m-xylene (S)	%	97	40-136	09/30/08 14:41	

LABORATORY CONTROL SAMPLE: 79772

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg		<19.0			
PCB-1221 (Aroclor 1221)	ug/kg		<19.0			
PCB-1232 (Aroclor 1232)	ug/kg		<19.0			
PCB-1242 (Aroclor 1242)	ug/kg		<19.0			
PCB-1248 (Aroclor 1248)	ug/kg		<19.0			
PCB-1254 (Aroclor 1254)	ug/kg	250	221	89	40-128	
PCB-1260 (Aroclor 1260)	ug/kg		<19.0			
Decachlorobiphenyl (S)	%			94	47-145	
Tetrachloro-m-xylene (S)	%			84	40-136	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 79783 79784

Parameter	Units	408211019 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
PCB-1016 (Aroclor 1016)	ug/kg	<190			<380	<380					56	
PCB-1221 (Aroclor 1221)	ug/kg	<190			<380	<380					56	
PCB-1232 (Aroclor 1232)	ug/kg	<190			<380	<380					56	
PCB-1242 (Aroclor 1242)	ug/kg	<190			<380	<380					56	
PCB-1248 (Aroclor 1248)	ug/kg	1770			3050	2710				12	56	
PCB-1254 (Aroclor 1254)	ug/kg	1350	1000	1000	2990	2720	164	137	43-130	9	56	M0
PCB-1260 (Aroclor 1260)	ug/kg	<190			<380	<380					56	
Decachlorobiphenyl (S)	%						0	0	47-145			S4
Tetrachloro-m-xylene (S)	%						0	0	40-136			S4

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 408211

QC Batch: OEXT/2754 Analysis Method: Pace Lipid
QC Batch Method: Pace Lipid Analysis Description: LIPID
Associated Lab Samples: 408211001, 408211002, 408211003, 408211004, 408211005, 408211006, 408211007, 408211008, 408211009, 408211010, 408211011, 408211012, 408211013, 408211014, 408211015, 408211016, 408211017, 408211018, 408211019, 408211020

METHOD BLANK: 80010 Matrix: Tissue
Associated Lab Samples: 408211001, 408211002, 408211003, 408211004, 408211005, 408211006, 408211007, 408211008, 408211009, 408211010, 408211011, 408211012, 408211013, 408211014, 408211015, 408211016, 408211017, 408211018, 408211019, 408211020

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lipid	%	<0.10		09/25/08 09:40	

SAMPLE DUPLICATE: 80011

Parameter	Units	408211019 Result	Dup Result	RPD	Max RPD	Qualifiers
Lipid	%	1.3	1.3	4	20	

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QUALIFIERS

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 408211

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

Pace Analytical is NELAP accredited. Contact your Pace PM for the current list of accredited analytes.

ANALYTE QUALIFIERS

M0	Matrix spike recovery was outside laboratory control limits.
S4	Surrogate recovery not evaluated against control limits due to sample dilution.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 408211

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
408211001	BL-UR1-JWS3-G, 8/19/08	EPA 3540	OEXT/2742	EPA 8082	GCSV/1924
408211002	BL-UR1-RB2-G, 8/20/08	EPA 3540	OEXT/2742	EPA 8082	GCSV/1924
408211003	BL-UR1-RB3-G, 8/20/08	EPA 3540	OEXT/2742	EPA 8082	GCSV/1924
408211004	BL-UR1-RB4-G, 8/20/08	EPA 3540	OEXT/2742	EPA 8082	GCSV/1924
408211005	BL-UR1-RB5-G, 8/20/08	EPA 3540	OEXT/2742	EPA 8082	GCSV/1924
408211006	BL-UR1-RB6-G, 8/20/08	EPA 3540	OEXT/2742	EPA 8082	GCSV/1924
408211007	BL-UR1-JWS5-G, 8/20/08	EPA 3540	OEXT/2742	EPA 8082	GCSV/1924
408211008	BL-UR1-JWS6-G, 8/20/08	EPA 3540	OEXT/2742	EPA 8082	GCSV/1924
408211009	BL-UR1-JWS7-G, 8/20/08	EPA 3540	OEXT/2742	EPA 8082	GCSV/1924
408211010	BL-UR1-JWS8-G, 8/20/08	EPA 3540	OEXT/2742	EPA 8082	GCSV/1924
408211011	BL-UR1-RB7-G, 8/20/08	EPA 3540	OEXT/2742	EPA 8082	GCSV/1924
408211012	BL-UR1-RB8-G, 8/20/08	EPA 3540	OEXT/2742	EPA 8082	GCSV/1924
408211013	BL-UR2-SB1-G, 8/21/08	EPA 3540	OEXT/2742	EPA 8082	GCSV/1924
408211014	BL-UR2-SB2-G, 8/21/08	EPA 3540	OEXT/2742	EPA 8082	GCSV/1924
408211015	BL-UR2-SB3-G, 8/21/08	EPA 3540	OEXT/2742	EPA 8082	GCSV/1924
408211016	BL-UR2-RB1-G, 8/21/08	EPA 3540	OEXT/2742	EPA 8082	GCSV/1924
408211017	BL-UR2-SB4-G, 8/21/08	EPA 3540	OEXT/2742	EPA 8082	GCSV/1924
408211018	BL-UR2-RB2-G, 8/21/08	EPA 3540	OEXT/2742	EPA 8082	GCSV/1924
408211019	BL-UR2-SB5-G, 8/21/08	EPA 3540	OEXT/2742	EPA 8082	GCSV/1924
408211020	BL-UR2-AWS1-G, 8/21/08	EPA 3540	OEXT/2742	EPA 8082	GCSV/1924
408211001	BL-UR1-JWS3-G, 8/19/08	Pace Lipid	OEXT/2754		
408211002	BL-UR1-RB2-G, 8/20/08	Pace Lipid	OEXT/2754		
408211003	BL-UR1-RB3-G, 8/20/08	Pace Lipid	OEXT/2754		
408211004	BL-UR1-RB4-G, 8/20/08	Pace Lipid	OEXT/2754		
408211005	BL-UR1-RB5-G, 8/20/08	Pace Lipid	OEXT/2754		
408211006	BL-UR1-RB6-G, 8/20/08	Pace Lipid	OEXT/2754		
408211007	BL-UR1-JWS5-G, 8/20/08	Pace Lipid	OEXT/2754		
408211008	BL-UR1-JWS6-G, 8/20/08	Pace Lipid	OEXT/2754		
408211009	BL-UR1-JWS7-G, 8/20/08	Pace Lipid	OEXT/2754		
408211010	BL-UR1-JWS8-G, 8/20/08	Pace Lipid	OEXT/2754		
408211011	BL-UR1-RB7-G, 8/20/08	Pace Lipid	OEXT/2754		
408211012	BL-UR1-RB8-G, 8/20/08	Pace Lipid	OEXT/2754		
408211013	BL-UR2-SB1-G, 8/21/08	Pace Lipid	OEXT/2754		
408211014	BL-UR2-SB2-G, 8/21/08	Pace Lipid	OEXT/2754		
408211015	BL-UR2-SB3-G, 8/21/08	Pace Lipid	OEXT/2754		
408211016	BL-UR2-RB1-G, 8/21/08	Pace Lipid	OEXT/2754		
408211017	BL-UR2-SB4-G, 8/21/08	Pace Lipid	OEXT/2754		
408211018	BL-UR2-RB2-G, 8/21/08	Pace Lipid	OEXT/2754		
408211019	BL-UR2-SB5-G, 8/21/08	Pace Lipid	OEXT/2754		
408211020	BL-UR2-AWS1-G, 8/21/08	Pace Lipid	OEXT/2754		

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October 17, 2008

BRANDY PROFFITT
POLLUTION RISK SERVICES
7870 EAST KEMPER ROAD
SUITE 240
Cincinnati, OH 45249

RE: Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 409156

Dear BRANDY PROFFITT:
Enclosed are the analytical results for sample(s) received by the laboratory on September 18, 2008. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Tod Noltemeyer

Tod Noltemeyer

tod.noltemeyer@pacelabs.com
Project Manager

Enclosures

REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 409156

Green Bay Certification IDs

Louisiana Certification #: 04169
Louisiana Certification #: 04168
Kentucky Certification #: 83
Kentucky Certification #: 82
Wisconsin DATCP Certification #: 105-444
Wisconsin DATCP Certification #: 105-444
Wisconsin Certification #: 405132750
Wisconsin Certification #: 405132750
South Carolina Certification #: 83006001
South Carolina Certification #: 83006001
Minnesota Certification #: 055-999-334
Minnesota Certification #: 055-999-334
North Carolina Certification #: 503
North Carolina Certification #: 503
North Dakota Certification #: R-200
North Dakota Certification #: R-150
New York Certification #: 11888
New York Certification #: 11887
Illinois Certification #: 200051
Illinois Certification #: 200050
Florida (NELAP) Certification #: E87951
Florida (NELAP) Certification #: E87948

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SAMPLE SUMMARY

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 409156

Lab ID	Sample ID	Matrix	Date Collected	Date Received
409156001	BL-MR2-LD5-G, 9/10/08	Tissue	09/10/08 00:00	09/18/08 13:05
409156002	BL-MR2-LD6-G, 9/10/08	Tissue	09/10/08 00:00	09/18/08 13:05
409156003	BL-MR2-LD7-G, 9/10/08	Tissue	09/10/08 00:00	09/18/08 13:05
409156004	BL-MR2-LD8-G, 9/10/08	Tissue	09/10/08 00:00	09/18/08 13:05
409156005	BL-MR1-LD1-G, 9/10/08	Tissue	09/10/08 00:00	09/18/08 13:05
409156006	BL-MR1-LD2-G, 9/10/08	Tissue	09/10/08 00:00	09/18/08 13:05
409156007	BL-MR1-LD3-G, 9/10/08	Tissue	09/10/08 00:00	09/18/08 13:05
409156008	BL-MR1-LD4-G, 9/10/08	Tissue	09/10/08 00:00	09/18/08 13:05
409156009	BL-MR1-LD5-G, 9/11/08	Tissue	09/11/08 00:00	09/18/08 13:05
409156010	BL-MR1-LD6-G, 9/11/08	Tissue	09/11/08 00:00	09/18/08 13:05
409156011	BL-UR1-LD1-G, 9/12/08	Tissue	09/12/08 00:00	09/18/08 13:05
409156012	BL-UR1-LD2-G, 9/12/08	Tissue	09/12/08 00:00	09/18/08 13:05
409156013	BL-UR1-LD3-G, 9/12/08	Tissue	09/12/08 00:00	09/18/08 13:05
409156014	BL-UR1-LD4-G, 9/12/08	Tissue	09/12/08 00:00	09/18/08 13:05
409156015	BL-MR2-CC2-G, 9/15/08	Tissue	09/15/08 00:00	09/18/08 13:05
409156016	BL-MR2-CC3-G, 9/15/08	Tissue	09/15/08 00:00	09/18/08 13:05
409156017	BL-MR2-CC4-G, 9/15/08	Tissue	09/15/08 00:00	09/18/08 13:05
409156018	BL-MR2-RB3-G, 9/15/08	Tissue	09/15/08 00:00	09/18/08 13:05
409156019	BL-MR2-RB4-G, 9/15/08	Tissue	09/15/08 00:00	09/18/08 13:05
409156020	BL-MR2-RB5-G, 9/15/08	Tissue	09/15/08 00:00	09/18/08 13:05

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SAMPLE ANALYTE COUNT

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 409156

Lab ID	Sample ID	Method	Analysts	Analytes Reported
409156001	BL-MR2-LD5-G, 9/10/08	EPA 8082	CAH	10
		Pace Lipid	DAL	1
409156002	BL-MR2-LD6-G, 9/10/08	EPA 8082	CAH	10
		Pace Lipid	DAL	1
409156003	BL-MR2-LD7-G, 9/10/08	EPA 8082	CAH	10
		Pace Lipid	DAL	1
409156004	BL-MR2-LD8-G, 9/10/08	EPA 8082	CAH	10
		Pace Lipid	DAL	1
409156005	BL-MR1-LD1-G, 9/10/08	EPA 8082	CAH	10
		Pace Lipid	DAL	1
409156006	BL-MR1-LD2-G, 9/10/08	EPA 8082	CAH	10
		Pace Lipid	DAL	1
409156007	BL-MR1-LD3-G, 9/10/08	EPA 8082	CAH	10
		Pace Lipid	DAL	1
409156008	BL-MR1-LD4-G, 9/10/08	EPA 8082	CAH	10
		Pace Lipid	DAL	1
409156009	BL-MR1-LD5-G, 9/11/08	EPA 8082	CAH	10
		Pace Lipid	DAL	1
409156010	BL-MR1-LD6-G, 9/11/08	EPA 8082	CAH	10
		Pace Lipid	DAL	1
409156011	BL-UR1-LD1-G, 9/12/08	EPA 8082	CAH	10
		Pace Lipid	DAL	1
409156012	BL-UR1-LD2-G, 9/12/08	EPA 8082	CAH	10
		Pace Lipid	DAL	1
409156013	BL-UR1-LD3-G, 9/12/08	EPA 8082	CAH	10
		Pace Lipid	DAL	1
409156014	BL-UR1-LD4-G, 9/12/08	EPA 8082	CAH	10
		Pace Lipid	DAL	1
409156015	BL-MR2-CC2-G, 9/15/08	EPA 8082	CAH	10
		Pace Lipid	DAL	1
409156016	BL-MR2-CC3-G, 9/15/08	EPA 8082	CAH	10
		Pace Lipid	DAL	1
409156017	BL-MR2-CC4-G, 9/15/08	EPA 8082	CAH	10
		Pace Lipid	DAL	1
409156018	BL-MR2-RB3-G, 9/15/08	EPA 8082	CAH	10
		Pace Lipid	DAL	1
409156019	BL-MR2-RB4-G, 9/15/08	EPA 8082	CAH	10

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SAMPLE ANALYTE COUNT

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 409156

Lab ID	Sample ID	Method	Analysts	Analytes Reported
		Pace Lipid	DAL	1
409156020	**BL-MR2-RB5-G, 9/15/08**	EPA 8082	CAH	10
		Pace Lipid	DAL	1

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PROJECT NARRATIVE

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 409156

Method: **EPA 8082**
Description: 8082 GCS PCBs, Tissue
Client: POLLUTION RISK SERVICES
Date: October 17, 2008

General Information:
20 samples were analyzed for EPA 8082. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 3540 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

QC Batch: OEXT/2826

S4: Surrogate recovery not evaluated against control limits due to sample dilution.

- BL-MR1-LD1-G, 9/10/08 (Lab ID: 409156005)
  - Decachlorobiphenyl (S)
  - Tetrachloro-m-xylene (S)
- BL-MR2-CC2-G, 9/15/08 (Lab ID: 409156015)
  - Decachlorobiphenyl (S)
  - Tetrachloro-m-xylene (S)
- BL-MR2-CC3-G, 9/15/08 (Lab ID: 409156016)
  - Decachlorobiphenyl (S)
  - Tetrachloro-m-xylene (S)
- BL-UR1-LD1-G, 9/12/08 (Lab ID: 409156011)
  - Decachlorobiphenyl (S)
  - Tetrachloro-m-xylene (S)
- MS (Lab ID: 83327)
  - Decachlorobiphenyl (S)
  - Tetrachloro-m-xylene (S)
- MSD (Lab ID: 83328)
  - Decachlorobiphenyl (S)
  - Tetrachloro-m-xylene (S)

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

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PROJECT NARRATIVE

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 409156

Method: **EPA 8082**
Description: 8082 GCS PCBs, Tissue
Client: POLLUTION RISK SERVICES
Date: October 17, 2008

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: OEXT/2826

A matrix spike and matrix spike duplicate (MS/MSD) were performed on the following sample(s): 409156015

M6: Matrix spike and Matrix spike duplicate recovery not evaluated against control limits due to sample dilution.

- MS (Lab ID: 83327)
  - PCB-1254 (Aroclor 1254)
- MSD (Lab ID: 83328)
  - PCB-1254 (Aroclor 1254)

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

Analyte Comments:

QC Batch: OEXT/2826

1j: Surrogate recovery outside laboratory control limits. Surrogate recovery could not be confirmed by re-extraction and re-analysis due to insufficient sample volume.

- BL-MR1-LD4-G, 9/10/08 (Lab ID: 409156008)
  - Decachlorobiphenyl (S)
  - Tetrachloro-m-xylene (S)

P2: Re-extraction or re-analysis could not be performed due to insufficient sample amount.

- BL-MR1-LD4-G, 9/10/08 (Lab ID: 409156008)
  - PCB-1221 (Aroclor 1221)

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PROJECT NARRATIVE

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 409156

Method: **Pace Lipid**
Description: Lipid
Client: POLLUTION RISK SERVICES
Date: October 17, 2008

General Information:
20 samples were analyzed for Pace Lipid. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

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ANALYTICAL RESULTS

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 409156

Sample: BL-MR2-LD5-G, 9/10/08 **Lab ID: 409156001** Collected: 09/10/08 00:00 Received: 09/18/08 13:05 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCBs, Tissue	Analytical Method: EPA 8082 Preparation Method: EPA 3540								
PCB-1016 (Aroclor 1016)	**<422**	ug/kg	1110	422	1	10/01/08 13:35	10/13/08 15:40	12674-11-2	
PCB-1221 (Aroclor 1221)	**<422**	ug/kg	1110	422	1	10/01/08 13:35	10/13/08 15:40	11104-28-2	
PCB-1232 (Aroclor 1232)	**<422**	ug/kg	1110	422	1	10/01/08 13:35	10/13/08 15:40	11141-16-5	
PCB-1242 (Aroclor 1242)	**<422**	ug/kg	1110	422	1	10/01/08 13:35	10/13/08 15:40	53469-21-9	
PCB-1248 (Aroclor 1248)	**3040**	ug/kg	1110	422	1	10/01/08 13:35	10/13/08 15:40	12672-29-6	
PCB-1254 (Aroclor 1254)	**1820**	ug/kg	1110	422	1	10/01/08 13:35	10/13/08 15:40	11097-69-1	
PCB-1260 (Aroclor 1260)	**<422**	ug/kg	1110	422	1	10/01/08 13:35	10/13/08 15:40	11096-82-5	
PCB, Total	**4860**	ug/kg	1110	422	1	10/01/08 13:35	10/13/08 15:40	1336-36-3	
Tetrachloro-m-xylene (S)	94	%	40-136		1	10/01/08 13:35	10/13/08 15:40	877-09-8	
Decachlorobiphenyl (S)	99	%	47-145		1	10/01/08 13:35	10/13/08 15:40	2051-24-3	
Lipid	Analytical Method: Pace Lipid								
Lipid	**2.3**	%		0.10	1		10/03/08 10:02		

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ANALYTICAL RESULTS

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 409156

Sample: BL-MR2-LD6-G, 9/10/08 **Lab ID: 409156002** Collected: 09/10/08 00:00 Received: 09/18/08 13:05 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCBs, Tissue	Analytical Method: EPA 8082 Preparation Method: EPA 3540								
PCB-1016 (Aroclor 1016)	**<330**	ug/kg	870	330	2	10/01/08 13:35	10/13/08 16:06	12674-11-2	
PCB-1221 (Aroclor 1221)	**<330**	ug/kg	870	330	2	10/01/08 13:35	10/13/08 16:06	11104-28-2	
PCB-1232 (Aroclor 1232)	**<330**	ug/kg	870	330	2	10/01/08 13:35	10/13/08 16:06	11141-16-5	
PCB-1242 (Aroclor 1242)	**<330**	ug/kg	870	330	2	10/01/08 13:35	10/13/08 16:06	53469-21-9	
PCB-1248 (Aroclor 1248)	**4700**	ug/kg	870	330	2	10/01/08 13:35	10/13/08 16:06	12672-29-6	
PCB-1254 (Aroclor 1254)	**2480**	ug/kg	870	330	2	10/01/08 13:35	10/13/08 16:06	11097-69-1	
PCB-1260 (Aroclor 1260)	**<330**	ug/kg	870	330	2	10/01/08 13:35	10/13/08 16:06	11096-82-5	
PCB, Total	**7170**	ug/kg	870	330	2	10/01/08 13:35	10/13/08 16:06	1336-36-3	
Tetrachloro-m-xylene (S)	91	%	40-136		2	10/01/08 13:35	10/13/08 16:06	877-09-8	
Decachlorobiphenyl (S)	100	%	47-145		2	10/01/08 13:35	10/13/08 16:06	2051-24-3	
Lipid	Analytical Method: Pace Lipid								
Lipid	**5.1**	%		0.10	1		10/03/08 10:03		

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ANALYTICAL RESULTS

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 409156

Sample: BL-MR2-LD7-G, 9/10/08 **Lab ID: 409156003** Collected: 09/10/08 00:00 Received: 09/18/08 13:05 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCBs, Tissue	Analytical Method: EPA 8082 Preparation Method: EPA 3540								
PCB-1016 (Aroclor 1016)	**<603**	ug/kg	1590	603	10	10/01/08 13:36	10/13/08 16:32	12674-11-2	
PCB-1221 (Aroclor 1221)	**<603**	ug/kg	1590	603	10	10/01/08 13:36	10/13/08 16:32	11104-28-2	
PCB-1232 (Aroclor 1232)	**<603**	ug/kg	1590	603	10	10/01/08 13:36	10/13/08 16:32	11141-16-5	
PCB-1242 (Aroclor 1242)	**<603**	ug/kg	1590	603	10	10/01/08 13:36	10/13/08 16:32	53469-21-9	
PCB-1248 (Aroclor 1248)	**5130**	ug/kg	1590	603	10	10/01/08 13:36	10/13/08 16:32	12672-29-6	
PCB-1254 (Aroclor 1254)	**4730**	ug/kg	1590	603	10	10/01/08 13:36	10/13/08 16:32	11097-69-1	
PCB-1260 (Aroclor 1260)	**<603**	ug/kg	1590	603	10	10/01/08 13:36	10/13/08 16:32	11096-82-5	
PCB, Total	**9860**	ug/kg	1590	603	10	10/01/08 13:36	10/13/08 16:32	1336-36-3	
Tetrachloro-m-xylene (S)	96	%	40-136		10	10/01/08 13:36	10/13/08 16:32	877-09-8	
Decachlorobiphenyl (S)	108	%	47-145		10	10/01/08 13:36	10/13/08 16:32	2051-24-3	
Lipid	Analytical Method: Pace Lipid								
Lipid	**4.1**	%		0.10	1		10/03/08 10:03		

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ANALYTICAL RESULTS

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 409156

Sample: BL-MR2-LD8-G, 9/10/08 **Lab ID: 409156004** Collected: 09/10/08 00:00 Received: 09/18/08 13:05 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCBs, Tissue	Analytical Method: EPA 8082 Preparation Method: EPA 3540								
PCB-1016 (Aroclor 1016)	**<328**	ug/kg	862	328	5	10/01/08 13:36	10/13/08 16:57	12674-11-2	
PCB-1221 (Aroclor 1221)	**<328**	ug/kg	862	328	5	10/01/08 13:36	10/13/08 16:57	11104-28-2	
PCB-1232 (Aroclor 1232)	**<328**	ug/kg	862	328	5	10/01/08 13:36	10/13/08 16:57	11141-16-5	
PCB-1242 (Aroclor 1242)	**<328**	ug/kg	862	328	5	10/01/08 13:36	10/13/08 16:57	53469-21-9	
PCB-1248 (Aroclor 1248)	**4910**	ug/kg	862	328	5	10/01/08 13:36	10/13/08 16:57	12672-29-6	
PCB-1254 (Aroclor 1254)	**3560**	ug/kg	862	328	5	10/01/08 13:36	10/13/08 16:57	11097-69-1	
PCB-1260 (Aroclor 1260)	**<328**	ug/kg	862	328	5	10/01/08 13:36	10/13/08 16:57	11096-82-5	
PCB, Total	**8470**	ug/kg	862	328	5	10/01/08 13:36	10/13/08 16:57	1336-36-3	
Tetrachloro-m-xylene (S)	90	%	40-136		5	10/01/08 13:36	10/13/08 16:57	877-09-8	
Decachlorobiphenyl (S)	101	%	47-145		5	10/01/08 13:36	10/13/08 16:57	2051-24-3	
Lipid	Analytical Method: Pace Lipid								
Lipid	**5.7**	%		0.10	1		10/03/08 10:03		

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ANALYTICAL RESULTS

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 409156

Sample: BL-MR1-LD1-G, 9/10/08 **Lab ID: 409156005** Collected: 09/10/08 00:00 Received: 09/18/08 13:05 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCBs, Tissue	Analytical Method: EPA 8082 Preparation Method: EPA 3540								
PCB-1016 (Aroclor 1016)	**<974**	ug/kg	2560	974	20	10/01/08 13:36	10/13/08 17:23	12674-11-2	
PCB-1221 (Aroclor 1221)	**<974**	ug/kg	2560	974	20	10/01/08 13:36	10/13/08 17:23	11104-28-2	
PCB-1232 (Aroclor 1232)	**<974**	ug/kg	2560	974	20	10/01/08 13:36	10/13/08 17:23	11141-16-5	
PCB-1242 (Aroclor 1242)	**<974**	ug/kg	2560	974	20	10/01/08 13:36	10/13/08 17:23	53469-21-9	
PCB-1248 (Aroclor 1248)	**9840**	ug/kg	2560	974	20	10/01/08 13:36	10/13/08 17:23	12672-29-6	
PCB-1254 (Aroclor 1254)	**7950**	ug/kg	2560	974	20	10/01/08 13:36	10/13/08 17:23	11097-69-1	
PCB-1260 (Aroclor 1260)	**<974**	ug/kg	2560	974	20	10/01/08 13:36	10/13/08 17:23	11096-82-5	
PCB, Total	**17800**	ug/kg	2560	974	20	10/01/08 13:36	10/13/08 17:23	1336-36-3	
Tetrachloro-m-xylene (S)	0	%	40-136		20	10/01/08 13:36	10/13/08 17:23	877-09-8	S4
Decachlorobiphenyl (S)	0	%	47-145		20	10/01/08 13:36	10/13/08 17:23	2051-24-3	S4
Lipid	Analytical Method: Pace Lipid								
Lipid	**5.8**	%		0.10	1		10/03/08 10:03		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 409156

Sample: BL-MR1-LD2-G, 9/10/08 **Lab ID: 409156006** Collected: 09/10/08 00:00 Received: 09/18/08 13:05 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCBs, Tissue	Analytical Method: EPA 8082 Preparation Method: EPA 3540								
PCB-1016 (Aroclor 1016)	**<306**	ug/kg	806	306	5	10/01/08 13:36	10/13/08 17:49	12674-11-2	
PCB-1221 (Aroclor 1221)	**<306**	ug/kg	806	306	5	10/01/08 13:36	10/13/08 17:49	11104-28-2	
PCB-1232 (Aroclor 1232)	**<306**	ug/kg	806	306	5	10/01/08 13:36	10/13/08 17:49	11141-16-5	
PCB-1242 (Aroclor 1242)	**<306**	ug/kg	806	306	5	10/01/08 13:36	10/13/08 17:49	53469-21-9	
PCB-1248 (Aroclor 1248)	**4230**	ug/kg	806	306	5	10/01/08 13:36	10/13/08 17:49	12672-29-6	
PCB-1254 (Aroclor 1254)	**3620**	ug/kg	806	306	5	10/01/08 13:36	10/13/08 17:49	11097-69-1	
PCB-1260 (Aroclor 1260)	**506J**	ug/kg	806	306	5	10/01/08 13:36	10/13/08 17:49	11096-82-5	
PCB, Total	**8350**	ug/kg	806	306	5	10/01/08 13:36	10/13/08 17:49	1336-36-3	
Tetrachloro-m-xylene (S)	101	%	40-136		5	10/01/08 13:36	10/13/08 17:49	877-09-8	
Decachlorobiphenyl (S)	110	%	47-145		5	10/01/08 13:36	10/13/08 17:49	2051-24-3	
Lipid	Analytical Method: Pace Lipid								
Lipid	**2.1**	%		0.10	1		10/03/08 10:03		

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ANALYTICAL RESULTS

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 409156

Sample: BL-MR1-LD3-G, 9/10/08 **Lab ID: 409156007** Collected: 09/10/08 00:00 Received: 09/18/08 13:05 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCBs, Tissue	Analytical Method: EPA 8082 Preparation Method: EPA 3540								
PCB-1016 (Aroclor 1016)	**<543**	ug/kg	1430	543	2	10/01/08 13:36	10/13/08 18:15	12674-11-2	
PCB-1221 (Aroclor 1221)	**<543**	ug/kg	1430	543	2	10/01/08 13:36	10/13/08 18:15	11104-28-2	
PCB-1232 (Aroclor 1232)	**<543**	ug/kg	1430	543	2	10/01/08 13:36	10/13/08 18:15	11141-16-5	
PCB-1242 (Aroclor 1242)	**<543**	ug/kg	1430	543	2	10/01/08 13:36	10/13/08 18:15	53469-21-9	
PCB-1248 (Aroclor 1248)	**6030**	ug/kg	1430	543	2	10/01/08 13:36	10/13/08 18:15	12672-29-6	
PCB-1254 (Aroclor 1254)	**2890**	ug/kg	1430	543	2	10/01/08 13:36	10/13/08 18:15	11097-69-1	
PCB-1260 (Aroclor 1260)	**<543**	ug/kg	1430	543	2	10/01/08 13:36	10/13/08 18:15	11096-82-5	
PCB, Total	**8920**	ug/kg	1430	543	2	10/01/08 13:36	10/13/08 18:15	1336-36-3	
Tetrachloro-m-xylene (S)	93	%	40-136		2	10/01/08 13:36	10/13/08 18:15	877-09-8	
Decachlorobiphenyl (S)	100	%	47-145		2	10/01/08 13:36	10/13/08 18:15	2051-24-3	
Lipid	Analytical Method: Pace Lipid								
Lipid	**3.6**	%		0.10	1		10/03/08 10:04		

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ANALYTICAL RESULTS

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 409156

Sample: BL-MR1-LD4-G, 9/10/08 **Lab ID: 409156008** Collected: 09/10/08 00:00 Received: 09/18/08 13:05 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCBs, Tissue	Analytical Method: EPA 8082 Preparation Method: EPA 3540								
PCB-1016 (Aroclor 1016)	**<400**	ug/kg	1050	400	2	10/01/08 13:36	10/13/08 18:41	12674-11-2	
PCB-1221 (Aroclor 1221)	**<400**	ug/kg	1050	400	2	10/01/08 13:36	10/13/08 18:41	11104-28-2	P2
PCB-1232 (Aroclor 1232)	**<400**	ug/kg	1050	400	2	10/01/08 13:36	10/13/08 18:41	11141-16-5	
PCB-1242 (Aroclor 1242)	**<400**	ug/kg	1050	400	2	10/01/08 13:36	10/13/08 18:41	53469-21-9	
PCB-1248 (Aroclor 1248)	**4470**	ug/kg	1050	400	2	10/01/08 13:36	10/13/08 18:41	12672-29-6	
PCB-1254 (Aroclor 1254)	**2610**	ug/kg	1050	400	2	10/01/08 13:36	10/13/08 18:41	11097-69-1	
PCB-1260 (Aroclor 1260)	**<400**	ug/kg	1050	400	2	10/01/08 13:36	10/13/08 18:41	11096-82-5	
PCB, Total	**7080**	ug/kg	1050	400	2	10/01/08 13:36	10/13/08 18:41	1336-36-3	
Tetrachloro-m-xylene (S)	.4	%	40-136		2	10/01/08 13:36	10/13/08 18:41	877-09-8	1j
Decachlorobiphenyl (S)	.1	%	47-145		2	10/01/08 13:36	10/13/08 18:41	2051-24-3	1j
Lipid	Analytical Method: Pace Lipid								
Lipid	**4.8**	%		0.10	1		10/03/08 10:04		

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ANALYTICAL RESULTS

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 409156

Sample: BL-MR1-LD5-G, 9/11/08 **Lab ID: 409156009** Collected: 09/11/08 00:00 Received: 09/18/08 13:05 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCBs, Tissue	Analytical Method: EPA 8082 Preparation Method: EPA 3540								
PCB-1016 (Aroclor 1016)	**<380**	ug/kg	1000	380	1	10/01/08 13:36	10/13/08 19:58	12674-11-2	
PCB-1221 (Aroclor 1221)	**<380**	ug/kg	1000	380	1	10/01/08 13:36	10/13/08 19:58	11104-28-2	
PCB-1232 (Aroclor 1232)	**<380**	ug/kg	1000	380	1	10/01/08 13:36	10/13/08 19:58	11141-16-5	
PCB-1242 (Aroclor 1242)	**<380**	ug/kg	1000	380	1	10/01/08 13:36	10/13/08 19:58	53469-21-9	
PCB-1248 (Aroclor 1248)	**4650**	ug/kg	1000	380	1	10/01/08 13:36	10/13/08 19:58	12672-29-6	
PCB-1254 (Aroclor 1254)	**2460**	ug/kg	1000	380	1	10/01/08 13:36	10/13/08 19:58	11097-69-1	
PCB-1260 (Aroclor 1260)	**<380**	ug/kg	1000	380	1	10/01/08 13:36	10/13/08 19:58	11096-82-5	
PCB, Total	**7100**	ug/kg	1000	380	1	10/01/08 13:36	10/13/08 19:58	1336-36-3	
Tetrachloro-m-xylene (S)	98	%	40-136		1	10/01/08 13:36	10/13/08 19:58	877-09-8	
Decachlorobiphenyl (S)	102	%	47-145		1	10/01/08 13:36	10/13/08 19:58	2051-24-3	
Lipid	Analytical Method: Pace Lipid								
Lipid	**2.7**	%		0.10	1		10/03/08 10:04		

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ANALYTICAL RESULTS

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 409156

Sample: BL-MR1-LD6-G, 9/11/08 **Lab ID: 409156010** Collected: 09/11/08 00:00 Received: 09/18/08 13:05 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCBs, Tissue	Analytical Method: EPA 8082 Preparation Method: EPA 3540								
PCB-1016 (Aroclor 1016)	**<345**	ug/kg	909	345	1	10/01/08 13:36	10/13/08 20:24	12674-11-2	
PCB-1221 (Aroclor 1221)	**<345**	ug/kg	909	345	1	10/01/08 13:36	10/13/08 20:24	11104-28-2	
PCB-1232 (Aroclor 1232)	**<345**	ug/kg	909	345	1	10/01/08 13:36	10/13/08 20:24	11141-16-5	
PCB-1242 (Aroclor 1242)	**<345**	ug/kg	909	345	1	10/01/08 13:36	10/13/08 20:24	53469-21-9	
PCB-1248 (Aroclor 1248)	**4800**	ug/kg	909	345	1	10/01/08 13:36	10/13/08 20:24	12672-29-6	
PCB-1254 (Aroclor 1254)	**2760**	ug/kg	909	345	1	10/01/08 13:36	10/13/08 20:24	11097-69-1	
PCB-1260 (Aroclor 1260)	**<345**	ug/kg	909	345	1	10/01/08 13:36	10/13/08 20:24	11096-82-5	
PCB, Total	**7560**	ug/kg	909	345	1	10/01/08 13:36	10/13/08 20:24	1336-36-3	
Tetrachloro-m-xylene (S)	95	%	40-136		1	10/01/08 13:36	10/13/08 20:24	877-09-8	
Decachlorobiphenyl (S)	100	%	47-145		1	10/01/08 13:36	10/13/08 20:24	2051-24-3	
Lipid	Analytical Method: Pace Lipid								
Lipid	**3.1**	%		0.10	1		10/03/08 10:04		

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ANALYTICAL RESULTS

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 409156

Sample: BL-UR1-LD1-G, 9/12/08 **Lab ID: 409156011** Collected: 09/12/08 00:00 Received: 09/18/08 13:05 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCBs, Tissue	Analytical Method: EPA 8082 Preparation Method: EPA 3540								
PCB-1016 (Aroclor 1016)	**<1230**	ug/kg	3230	1230	20	10/01/08 13:36	10/13/08 20:50	12674-11-2	
PCB-1221 (Aroclor 1221)	**<1230**	ug/kg	3230	1230	20	10/01/08 13:36	10/13/08 20:50	11104-28-2	
PCB-1232 (Aroclor 1232)	**<1230**	ug/kg	3230	1230	20	10/01/08 13:36	10/13/08 20:50	11141-16-5	
PCB-1242 (Aroclor 1242)	**<1230**	ug/kg	3230	1230	20	10/01/08 13:36	10/13/08 20:50	53469-21-9	
PCB-1248 (Aroclor 1248)	**7380**	ug/kg	3230	1230	20	10/01/08 13:36	10/13/08 20:50	12672-29-6	
PCB-1254 (Aroclor 1254)	**10200**	ug/kg	3230	1230	20	10/01/08 13:36	10/13/08 20:50	11097-69-1	
PCB-1260 (Aroclor 1260)	**<1230**	ug/kg	3230	1230	20	10/01/08 13:36	10/13/08 20:50	11096-82-5	
PCB, Total	**17600**	ug/kg	3230	1230	20	10/01/08 13:36	10/13/08 20:50	1336-36-3	
Tetrachloro-m-xylene (S)	0	%	40-136		20	10/01/08 13:36	10/13/08 20:50	877-09-8	S4
Decachlorobiphenyl (S)	0	%	47-145		20	10/01/08 13:36	10/13/08 20:50	2051-24-3	S4
Lipid	Analytical Method: Pace Lipid								
Lipid	**2.8**	%		0.10	1		10/03/08 10:05		

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ANALYTICAL RESULTS

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 409156

Sample: BL-UR1-LD2-G, 9/12/08 **Lab ID: 409156012** Collected: 09/12/08 00:00 Received: 09/18/08 13:05 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCBs, Tissue	Analytical Method: EPA 8082 Preparation Method: EPA 3540								
PCB-1016 (Aroclor 1016)	**<131**	ug/kg	345	131	1	10/01/08 13:36	10/13/08 21:16	12674-11-2	
PCB-1221 (Aroclor 1221)	**<131**	ug/kg	345	131	1	10/01/08 13:36	10/13/08 21:16	11104-28-2	
PCB-1232 (Aroclor 1232)	**<131**	ug/kg	345	131	1	10/01/08 13:36	10/13/08 21:16	11141-16-5	
PCB-1242 (Aroclor 1242)	**<131**	ug/kg	345	131	1	10/01/08 13:36	10/13/08 21:16	53469-21-9	
PCB-1248 (Aroclor 1248)	**1230**	ug/kg	345	131	1	10/01/08 13:36	10/13/08 21:16	12672-29-6	
PCB-1254 (Aroclor 1254)	**1680**	ug/kg	345	131	1	10/01/08 13:36	10/13/08 21:16	11097-69-1	
PCB-1260 (Aroclor 1260)	**294J**	ug/kg	345	131	1	10/01/08 13:36	10/13/08 21:16	11096-82-5	
PCB, Total	**3200**	ug/kg	345	131	1	10/01/08 13:36	10/13/08 21:16	1336-36-3	
Tetrachloro-m-xylene (S)	93	%	40-136		1	10/01/08 13:36	10/13/08 21:16	877-09-8	
Decachlorobiphenyl (S)	98	%	47-145		1	10/01/08 13:36	10/13/08 21:16	2051-24-3	
Lipid	Analytical Method: Pace Lipid								
Lipid	**1.2**	%		0.10	1		10/03/08 10:05		

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ANALYTICAL RESULTS

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 409156

Sample: BL-UR1-LD3-G, 9/12/08 **Lab ID: 409156013** Collected: 09/12/08 00:00 Received: 09/18/08 13:05 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCBs, Tissue	Analytical Method: EPA 8082 Preparation Method: EPA 3540								
PCB-1016 (Aroclor 1016)	**<271**	ug/kg	714	271	1	10/01/08 13:36	10/13/08 21:42	12674-11-2	
PCB-1221 (Aroclor 1221)	**<271**	ug/kg	714	271	1	10/01/08 13:36	10/13/08 21:42	11104-28-2	
PCB-1232 (Aroclor 1232)	**<271**	ug/kg	714	271	1	10/01/08 13:36	10/13/08 21:42	11141-16-5	
PCB-1242 (Aroclor 1242)	**<271**	ug/kg	714	271	1	10/01/08 13:36	10/13/08 21:42	53469-21-9	
PCB-1248 (Aroclor 1248)	**901**	ug/kg	714	271	1	10/01/08 13:36	10/13/08 21:42	12672-29-6	
PCB-1254 (Aroclor 1254)	**822**	ug/kg	714	271	1	10/01/08 13:36	10/13/08 21:42	11097-69-1	
PCB-1260 (Aroclor 1260)	**<271**	ug/kg	714	271	1	10/01/08 13:36	10/13/08 21:42	11096-82-5	
PCB, Total	**1720**	ug/kg	714	271	1	10/01/08 13:36	10/13/08 21:42	1336-36-3	
Tetrachloro-m-xylene (S)	52	%	40-136		1	10/01/08 13:36	10/13/08 21:42	877-09-8	
Decachlorobiphenyl (S)	56	%	47-145		1	10/01/08 13:36	10/13/08 21:42	2051-24-3	
Lipid	Analytical Method: Pace Lipid								
Lipid	**1.1**	%		0.10	1		10/03/08 10:05		

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ANALYTICAL RESULTS

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 409156

Sample: BL-UR1-LD4-G, 9/12/08 **Lab ID: 409156014** Collected: 09/12/08 00:00 Received: 09/18/08 13:05 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCBs, Tissue	Analytical Method: EPA 8082 Preparation Method: EPA 3540								
PCB-1016 (Aroclor 1016)	**<190**	ug/kg	500	190	1	10/01/08 13:36	10/13/08 22:07	12674-11-2	
PCB-1221 (Aroclor 1221)	**<190**	ug/kg	500	190	1	10/01/08 13:36	10/13/08 22:07	11104-28-2	
PCB-1232 (Aroclor 1232)	**<190**	ug/kg	500	190	1	10/01/08 13:36	10/13/08 22:07	11141-16-5	
PCB-1242 (Aroclor 1242)	**<190**	ug/kg	500	190	1	10/01/08 13:36	10/13/08 22:07	53469-21-9	
PCB-1248 (Aroclor 1248)	**2040**	ug/kg	500	190	1	10/01/08 13:36	10/13/08 22:07	12672-29-6	
PCB-1254 (Aroclor 1254)	**1250**	ug/kg	500	190	1	10/01/08 13:36	10/13/08 22:07	11097-69-1	
PCB-1260 (Aroclor 1260)	**<190**	ug/kg	500	190	1	10/01/08 13:36	10/13/08 22:07	11096-82-5	
PCB, Total	**3290**	ug/kg	500	190	1	10/01/08 13:36	10/13/08 22:07	1336-36-3	
Tetrachloro-m-xylene (S)	91	%	40-136		1	10/01/08 13:36	10/13/08 22:07	877-09-8	
Decachlorobiphenyl (S)	95	%	47-145		1	10/01/08 13:36	10/13/08 22:07	2051-24-3	
Lipid	Analytical Method: Pace Lipid								
Lipid	**2.3**	%		0.10	1		10/03/08 10:05		

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ANALYTICAL RESULTS

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 409156

Sample: BL-MR2-CC2-G, 9/15/08 **Lab ID: 409156015** Collected: 09/15/08 00:00 Received: 09/18/08 13:05 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCBs, Tissue	Analytical Method: EPA 8082 Preparation Method: EPA 3540								
PCB-1016 (Aroclor 1016)	**<570**	ug/kg	1500	570	30	10/01/08 13:36	10/13/08 22:33	12674-11-2	
PCB-1221 (Aroclor 1221)	**<570**	ug/kg	1500	570	30	10/01/08 13:36	10/13/08 22:33	11104-28-2	
PCB-1232 (Aroclor 1232)	**<570**	ug/kg	1500	570	30	10/01/08 13:36	10/13/08 22:33	11141-16-5	
PCB-1242 (Aroclor 1242)	**<570**	ug/kg	1500	570	30	10/01/08 13:36	10/13/08 22:33	53469-21-9	
PCB-1248 (Aroclor 1248)	**4940**	ug/kg	1500	570	30	10/01/08 13:36	10/13/08 22:33	12672-29-6	
PCB-1254 (Aroclor 1254)	**3750**	ug/kg	1500	570	30	10/01/08 13:36	10/13/08 22:33	11097-69-1	M6
PCB-1260 (Aroclor 1260)	**<570**	ug/kg	1500	570	30	10/01/08 13:36	10/13/08 22:33	11096-82-5	
PCB, Total	**8680**	ug/kg	1500	570	30	10/01/08 13:36	10/13/08 22:33	1336-36-3	
Tetrachloro-m-xylene (S)	0	%	40-136		30	10/01/08 13:36	10/13/08 22:33	877-09-8	S4
Decachlorobiphenyl (S)	0	%	47-145		30	10/01/08 13:36	10/13/08 22:33	2051-24-3	S4
Lipid	Analytical Method: Pace Lipid								
Lipid	**6.0**	%		0.10	1		10/03/08 10:05		

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ANALYTICAL RESULTS

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 409156

Sample: BL-MR2-CC3-G, 9/15/08 **Lab ID: 409156016** Collected: 09/15/08 00:00 Received: 09/18/08 13:05 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCBs, Tissue	Analytical Method: EPA 8082 Preparation Method: EPA 3540								
PCB-1016 (Aroclor 1016)	**<950**	ug/kg	2500	950	50	10/01/08 13:36	10/13/08 22:59	12674-11-2	
PCB-1221 (Aroclor 1221)	**<950**	ug/kg	2500	950	50	10/01/08 13:36	10/13/08 22:59	11104-28-2	
PCB-1232 (Aroclor 1232)	**<950**	ug/kg	2500	950	50	10/01/08 13:36	10/13/08 22:59	11141-16-5	
PCB-1242 (Aroclor 1242)	**<950**	ug/kg	2500	950	50	10/01/08 13:36	10/13/08 22:59	53469-21-9	
PCB-1248 (Aroclor 1248)	**8350**	ug/kg	2500	950	50	10/01/08 13:36	10/13/08 22:59	12672-29-6	
PCB-1254 (Aroclor 1254)	**8250**	ug/kg	2500	950	50	10/01/08 13:36	10/13/08 22:59	11097-69-1	
PCB-1260 (Aroclor 1260)	**<950**	ug/kg	2500	950	50	10/01/08 13:36	10/13/08 22:59	11096-82-5	
PCB, Total	**16600**	ug/kg	2500	950	50	10/01/08 13:36	10/13/08 22:59	1336-36-3	
Tetrachloro-m-xylene (S)	0	%	40-136		50	10/01/08 13:36	10/13/08 22:59	877-09-8	S4
Decachlorobiphenyl (S)	0	%	47-145		50	10/01/08 13:36	10/13/08 22:59	2051-24-3	S4
Lipid	Analytical Method: Pace Lipid								
Lipid	**3.4**	%		0.10	1		10/03/08 10:06		

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(920)469-2436

ANALYTICAL RESULTS

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 409156

Sample: BL-MR2-CC4-G, 9/15/08 **Lab ID: 409156017** Collected: 09/15/08 00:00 Received: 09/18/08 13:05 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCBs, Tissue	Analytical Method: EPA 8082 Preparation Method: EPA 3540								
PCB-1016 (Aroclor 1016)	**<38.0**	ug/kg	100	38.0	2	10/01/08 13:36	10/13/08 23:25	12674-11-2	
PCB-1221 (Aroclor 1221)	**<38.0**	ug/kg	100	38.0	2	10/01/08 13:36	10/13/08 23:25	11104-28-2	
PCB-1232 (Aroclor 1232)	**<38.0**	ug/kg	100	38.0	2	10/01/08 13:36	10/13/08 23:25	11141-16-5	
PCB-1242 (Aroclor 1242)	**<38.0**	ug/kg	100	38.0	2	10/01/08 13:36	10/13/08 23:25	53469-21-9	
PCB-1248 (Aroclor 1248)	**234**	ug/kg	100	38.0	2	10/01/08 13:36	10/13/08 23:25	12672-29-6	
PCB-1254 (Aroclor 1254)	**197**	ug/kg	100	38.0	2	10/01/08 13:36	10/13/08 23:25	11097-69-1	
PCB-1260 (Aroclor 1260)	**101**	ug/kg	100	38.0	2	10/01/08 13:36	10/13/08 23:25	11096-82-5	
PCB, Total	**532**	ug/kg	100	38.0	2	10/01/08 13:36	10/13/08 23:25	1336-36-3	
Tetrachloro-m-xylene (S)	103	%	40-136		2	10/01/08 13:36	10/13/08 23:25	877-09-8	
Decachlorobiphenyl (S)	105	%	47-145		2	10/01/08 13:36	10/13/08 23:25	2051-24-3	
Lipid	Analytical Method: Pace Lipid								
Lipid	**3.5**	%		0.10	1		10/03/08 10:06		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 409156

Sample: BL-MR2-RB3-G, 9/15/08 **Lab ID: 409156018** Collected: 09/15/08 00:00 Received: 09/18/08 13:05 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCBs, Tissue	Analytical Method: EPA 8082 Preparation Method: EPA 3540								
PCB-1016 (Aroclor 1016)	**<95.0**	ug/kg	250	95.0	5	10/01/08 13:36	10/13/08 23:51	12674-11-2	
PCB-1221 (Aroclor 1221)	**<95.0**	ug/kg	250	95.0	5	10/01/08 13:36	10/13/08 23:51	11104-28-2	
PCB-1232 (Aroclor 1232)	**<95.0**	ug/kg	250	95.0	5	10/01/08 13:36	10/13/08 23:51	11141-16-5	
PCB-1242 (Aroclor 1242)	**<95.0**	ug/kg	250	95.0	5	10/01/08 13:36	10/13/08 23:51	53469-21-9	
PCB-1248 (Aroclor 1248)	**1090**	ug/kg	250	95.0	5	10/01/08 13:36	10/13/08 23:51	12672-29-6	
PCB-1254 (Aroclor 1254)	**789**	ug/kg	250	95.0	5	10/01/08 13:36	10/13/08 23:51	11097-69-1	
PCB-1260 (Aroclor 1260)	**<95.0**	ug/kg	250	95.0	5	10/01/08 13:36	10/13/08 23:51	11096-82-5	
PCB, Total	**1880**	ug/kg	250	95.0	5	10/01/08 13:36	10/13/08 23:51	1336-36-3	
Tetrachloro-m-xylene (S)	100	%	40-136		5	10/01/08 13:36	10/13/08 23:51	877-09-8	
Decachlorobiphenyl (S)	108	%	47-145		5	10/01/08 13:36	10/13/08 23:51	2051-24-3	
Lipid	Analytical Method: Pace Lipid								
Lipid	**1.2**	%		0.10	1		10/03/08 10:06		

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ANALYTICAL RESULTS

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 409156

Sample: BL-MR2-RB4-G, 9/15/08 **Lab ID: 409156019** Collected: 09/15/08 00:00 Received: 09/18/08 13:05 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCBs, Tissue	Analytical Method: EPA 8082 Preparation Method: EPA 3540								
PCB-1016 (Aroclor 1016)	**<190**	ug/kg	500	190	10	10/01/08 13:36	10/14/08 00:17	12674-11-2	
PCB-1221 (Aroclor 1221)	**<190**	ug/kg	500	190	10	10/01/08 13:36	10/14/08 00:17	11104-28-2	
PCB-1232 (Aroclor 1232)	**<190**	ug/kg	500	190	10	10/01/08 13:36	10/14/08 00:17	11141-16-5	
PCB-1242 (Aroclor 1242)	**<190**	ug/kg	500	190	10	10/01/08 13:36	10/14/08 00:17	53469-21-9	
PCB-1248 (Aroclor 1248)	**1990**	ug/kg	500	190	10	10/01/08 13:36	10/14/08 00:17	12672-29-6	
PCB-1254 (Aroclor 1254)	**1480**	ug/kg	500	190	10	10/01/08 13:36	10/14/08 00:17	11097-69-1	
PCB-1260 (Aroclor 1260)	**<190**	ug/kg	500	190	10	10/01/08 13:36	10/14/08 00:17	11096-82-5	
PCB, Total	**3470**	ug/kg	500	190	10	10/01/08 13:36	10/14/08 00:17	1336-36-3	
Tetrachloro-m-xylene (S)	94	%	40-136		10	10/01/08 13:36	10/14/08 00:17	877-09-8	
Decachlorobiphenyl (S)	100	%	47-145		10	10/01/08 13:36	10/14/08 00:17	2051-24-3	
Lipid	Analytical Method: Pace Lipid								
Lipid	**1.8**	%		0.10	1		10/03/08 10:07		

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ANALYTICAL RESULTS

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 409156

Sample: BL-MR2-RB5-G, 9/15/08 **Lab ID: 409156020** Collected: 09/15/08 00:00 Received: 09/18/08 13:05 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCBs, Tissue	Analytical Method: EPA 8082 Preparation Method: EPA 3540								
PCB-1016 (Aroclor 1016)	**<117**	ug/kg	307	117	5	10/01/08 13:36	10/14/08 00:42	12674-11-2	
PCB-1221 (Aroclor 1221)	**<117**	ug/kg	307	117	5	10/01/08 13:36	10/14/08 00:42	11104-28-2	
PCB-1232 (Aroclor 1232)	**<117**	ug/kg	307	117	5	10/01/08 13:36	10/14/08 00:42	11141-16-5	
PCB-1242 (Aroclor 1242)	**<117**	ug/kg	307	117	5	10/01/08 13:36	10/14/08 00:42	53469-21-9	
PCB-1248 (Aroclor 1248)	**1340**	ug/kg	307	117	5	10/01/08 13:36	10/14/08 00:42	12672-29-6	
PCB-1254 (Aroclor 1254)	**1380**	ug/kg	307	117	5	10/01/08 13:36	10/14/08 00:42	11097-69-1	
PCB-1260 (Aroclor 1260)	**135J**	ug/kg	307	117	5	10/01/08 13:36	10/14/08 00:42	11096-82-5	
PCB, Total	**2860**	ug/kg	307	117	5	10/01/08 13:36	10/14/08 00:42	1336-36-3	
Tetrachloro-m-xylene (S)	98	%	40-136		5	10/01/08 13:36	10/14/08 00:42	877-09-8	
Decachlorobiphenyl (S)	108	%	47-145		5	10/01/08 13:36	10/14/08 00:42	2051-24-3	
Lipid	Analytical Method: Pace Lipid								
Lipid	**1.0**	%		0.10	1		10/03/08 10:07		

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QUALITY CONTROL DATA

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 409156

QC Batch: OEXT/2826 Analysis Method: EPA 8082
QC Batch Method: EPA 3540 Analysis Description: 8082 GCS Tissue Pesticides
Associated Lab Samples: 409156001, 409156002, 409156003, 409156004, 409156005, 409156006, 409156007, 409156008, 409156009, 409156010, 409156011, 409156012, 409156013, 409156014, 409156015, 409156016, 409156017, 409156018, 409156019, 409156020

METHOD BLANK: 83325 Matrix: Tissue
Associated Lab Samples: 409156001, 409156002, 409156003, 409156004, 409156005, 409156006, 409156007, 409156008, 409156009, 409156010, 409156011, 409156012, 409156013, 409156014, 409156015, 409156016, 409156017, 409156018, 409156019, 409156020

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg	<19.0	50.0	10/13/08 13:57	
PCB-1221 (Aroclor 1221)	ug/kg	<19.0	50.0	10/13/08 13:57	
PCB-1232 (Aroclor 1232)	ug/kg	<19.0	50.0	10/13/08 13:57	
PCB-1242 (Aroclor 1242)	ug/kg	<19.0	50.0	10/13/08 13:57	
PCB-1248 (Aroclor 1248)	ug/kg	<19.0	50.0	10/13/08 13:57	
PCB-1254 (Aroclor 1254)	ug/kg	<19.0	50.0	10/13/08 13:57	
PCB-1260 (Aroclor 1260)	ug/kg	<19.0	50.0	10/13/08 13:57	
Decachlorobiphenyl (S)	%	93	47-145	10/13/08 13:57	
Tetrachloro-m-xylene (S)	%	89	40-136	10/13/08 13:57	

LABORATORY CONTROL SAMPLE: 83326

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg		<19.0			
PCB-1221 (Aroclor 1221)	ug/kg		<19.0			
PCB-1232 (Aroclor 1232)	ug/kg		<19.0			
PCB-1242 (Aroclor 1242)	ug/kg		<19.0			
PCB-1248 (Aroclor 1248)	ug/kg		<19.0			
PCB-1254 (Aroclor 1254)	ug/kg	250	212	85	40-128	
PCB-1260 (Aroclor 1260)	ug/kg		<19.0			
Decachlorobiphenyl (S)	%			92	47-145	
Tetrachloro-m-xylene (S)	%			89	40-136	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 83327 83328

Parameter	Units	409156015 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
PCB-1016 (Aroclor 1016)	ug/kg	<570			<570	<570					56	
PCB-1221 (Aroclor 1221)	ug/kg	<570			<570	<570					56	
PCB-1232 (Aroclor 1232)	ug/kg	<570			<570	<570					56	
PCB-1242 (Aroclor 1242)	ug/kg	<570			<570	<570					56	
PCB-1248 (Aroclor 1248)	ug/kg	4940			5190	5270				1	56	
PCB-1254 (Aroclor 1254)	ug/kg	3750	1000	1000	4850	4810	111	106	43-130	.9	56	M6
PCB-1260 (Aroclor 1260)	ug/kg	<570			<570	<570					56	
Decachlorobiphenyl (S)	%						0	0	47-145			S4
Tetrachloro-m-xylene (S)	%						0	0	40-136			S4

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 409156

QC Batch: OEXT/2841 Analysis Method: Pace Lipid
QC Batch Method: Pace Lipid Analysis Description: LIPID
Associated Lab Samples: 409156001, 409156002, 409156003, 409156004, 409156005, 409156006, 409156007, 409156008, 409156009, 409156010, 409156011, 409156012, 409156013, 409156014, 409156015, 409156016, 409156017, 409156018, 409156019, 409156020

METHOD BLANK: 83963 Matrix: Tissue
Associated Lab Samples: 409156001, 409156002, 409156003, 409156004, 409156005, 409156006, 409156007, 409156008, 409156009, 409156010, 409156011, 409156012, 409156013, 409156014, 409156015, 409156016, 409156017, 409156018, 409156019, 409156020

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lipid	%	<0.10		10/03/08 10:02	

SAMPLE DUPLICATE: 83964

Parameter	Units	409156015 Result	Dup Result	RPD	Max RPD	Qualifiers
Lipid	%	6.0	6.4	6	20	

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QUALIFIERS

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 409156

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

Pace Analytical is NELAP accredited. Contact your Pace PM for the current list of accredited analytes.

ANALYTE QUALIFIERS

1j	Surrogate recovery outside laboratory control limits. Surrogate recovery could not be confirmed by re-extraction and re-analysis due to insufficient sample volume.
M6	Matrix spike and Matrix spike duplicate recovery not evaluated against control limits due to sample dilution.
P2	Re-extraction or re-analysis could not be performed due to insufficient sample amount.
S4	Surrogate recovery not evaluated against control limits due to sample dilution.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 409156

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
409156001	BL-MR2-LD5-G, 9/10/08	EPA 3540	OEXT/2826	EPA 8082	GCSV/1975
409156002	BL-MR2-LD6-G, 9/10/08	EPA 3540	OEXT/2826	EPA 8082	GCSV/1975
409156003	BL-MR2-LD7-G, 9/10/08	EPA 3540	OEXT/2826	EPA 8082	GCSV/1975
409156004	BL-MR2-LD8-G, 9/10/08	EPA 3540	OEXT/2826	EPA 8082	GCSV/1975
409156005	BL-MR1-LD1-G, 9/10/08	EPA 3540	OEXT/2826	EPA 8082	GCSV/1975
409156006	BL-MR1-LD2-G, 9/10/08	EPA 3540	OEXT/2826	EPA 8082	GCSV/1975
409156007	BL-MR1-LD3-G, 9/10/08	EPA 3540	OEXT/2826	EPA 8082	GCSV/1975
409156008	BL-MR1-LD4-G, 9/10/08	EPA 3540	OEXT/2826	EPA 8082	GCSV/1975
409156009	BL-MR1-LD5-G, 9/11/08	EPA 3540	OEXT/2826	EPA 8082	GCSV/1975
409156010	BL-MR1-LD6-G, 9/11/08	EPA 3540	OEXT/2826	EPA 8082	GCSV/1975
409156011	BL-UR1-LD1-G, 9/12/08	EPA 3540	OEXT/2826	EPA 8082	GCSV/1975
409156012	BL-UR1-LD2-G, 9/12/08	EPA 3540	OEXT/2826	EPA 8082	GCSV/1975
409156013	BL-UR1-LD3-G, 9/12/08	EPA 3540	OEXT/2826	EPA 8082	GCSV/1975
409156014	BL-UR1-LD4-G, 9/12/08	EPA 3540	OEXT/2826	EPA 8082	GCSV/1975
409156015	BL-MR2-CC2-G, 9/15/08	EPA 3540	OEXT/2826	EPA 8082	GCSV/1975
409156016	BL-MR2-CC3-G, 9/15/08	EPA 3540	OEXT/2826	EPA 8082	GCSV/1975
409156017	BL-MR2-CC4-G, 9/15/08	EPA 3540	OEXT/2826	EPA 8082	GCSV/1975
409156018	BL-MR2-RB3-G, 9/15/08	EPA 3540	OEXT/2826	EPA 8082	GCSV/1975
409156019	BL-MR2-RB4-G, 9/15/08	EPA 3540	OEXT/2826	EPA 8082	GCSV/1975
409156020	BL-MR2-RB5-G, 9/15/08	EPA 3540	OEXT/2826	EPA 8082	GCSV/1975
409156001	BL-MR2-LD5-G, 9/10/08	Pace Lipid	OEXT/2841		
409156002	BL-MR2-LD6-G, 9/10/08	Pace Lipid	OEXT/2841		
409156003	BL-MR2-LD7-G, 9/10/08	Pace Lipid	OEXT/2841		
409156004	BL-MR2-LD8-G, 9/10/08	Pace Lipid	OEXT/2841		
409156005	BL-MR1-LD1-G, 9/10/08	Pace Lipid	OEXT/2841		
409156006	BL-MR1-LD2-G, 9/10/08	Pace Lipid	OEXT/2841		
409156007	BL-MR1-LD3-G, 9/10/08	Pace Lipid	OEXT/2841		
409156008	BL-MR1-LD4-G, 9/10/08	Pace Lipid	OEXT/2841		
409156009	BL-MR1-LD5-G, 9/11/08	Pace Lipid	OEXT/2841		
409156010	BL-MR1-LD6-G, 9/11/08	Pace Lipid	OEXT/2841		
409156011	BL-UR1-LD1-G, 9/12/08	Pace Lipid	OEXT/2841		
409156012	BL-UR1-LD2-G, 9/12/08	Pace Lipid	OEXT/2841		
409156013	BL-UR1-LD3-G, 9/12/08	Pace Lipid	OEXT/2841		
409156014	BL-UR1-LD4-G, 9/12/08	Pace Lipid	OEXT/2841		
409156015	BL-MR2-CC2-G, 9/15/08	Pace Lipid	OEXT/2841		
409156016	BL-MR2-CC3-G, 9/15/08	Pace Lipid	OEXT/2841		
409156017	BL-MR2-CC4-G, 9/15/08	Pace Lipid	OEXT/2841		
409156018	BL-MR2-RB3-G, 9/15/08	Pace Lipid	OEXT/2841		
409156019	BL-MR2-RB4-G, 9/15/08	Pace Lipid	OEXT/2841		
409156020	BL-MR2-RB5-G, 9/15/08	Pace Lipid	OEXT/2841		

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October 17, 2008

BRANDY PROFFITT
POLLUTION RISK SERVICES
7870 EAST KEMPER ROAD
SUITE 240
Cincinnati, OH 45249

RE: Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 409245

Dear BRANDY PROFFITT:
Enclosed are the analytical results for sample(s) received by the laboratory on September 19, 2008. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Tod Noltemeyer

Tod Noltemeyer

tod.noltemeyer@pacelabs.com
Project Manager

Enclosures

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CERTIFICATIONS

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 409245

Green Bay Certification IDs

Louisiana Certification #: 04169
Louisiana Certification #: 04168
Kentucky Certification #: 83
Kentucky Certification #: 82
Wisconsin DATCP Certification #: 105-444
Wisconsin DATCP Certification #: 105-444
Wisconsin Certification #: 405132750
Wisconsin Certification #: 405132750
South Carolina Certification #: 83006001
South Carolina Certification #: 83006001
Minnesota Certification #: 055-999-334
Minnesota Certification #: 055-999-334
North Carolina Certification #: 503
North Carolina Certification #: 503
North Dakota Certification #: R-200
North Dakota Certification #: R-150
New York Certification #: 11888
New York Certification #: 11887
Illinois Certification #: 200051
Illinois Certification #: 200050
Florida (NELAP) Certification #: E87951
Florida (NELAP) Certification #: E87948

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SAMPLE SUMMARY

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 409245

Lab ID	Sample ID	Matrix	Date Collected	Date Received
409245001	**BL-MR1-CC1-G, 9/17/08**	Tissue	09/17/08 00:00	09/19/08 13:40
409245002	**BL-MR1-CC2-G, 9/17/08**	Tissue	09/17/08 00:00	09/19/08 13:40
409245003	**BL-MR1-CC3-G, 9/17/08**	Tissue	09/17/08 00:00	09/19/08 13:40
409245004	**BL-MR1-CC4-G, 9/17/08**	Tissue	09/17/08 00:00	09/19/08 13:40
409245005	**BL-MR1-RB1-G, 9/17/08**	Tissue	09/17/08 00:00	09/19/08 13:40
409245006	**BL-UR1-LD5-G, 9/17/08**	Tissue	09/17/08 00:00	09/19/08 13:40
409245007	**BL-UR1-LD6-G, 9/17/08**	Tissue	09/17/08 00:00	09/19/08 13:40

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SAMPLE ANALYTE COUNT

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 409245

Lab ID	Sample ID	Method	Analysts	Analytes Reported
409245001	**BL-MR1-CC1-G, 9/17/08**	EPA 8082	BDS	10
		Pace Lipid	KPH	1
409245002	**BL-MR1-CC2-G, 9/17/08**	EPA 8082	BDS	10
		Pace Lipid	KPH	1
409245003	**BL-MR1-CC3-G, 9/17/08**	EPA 8082	BDS	10
		Pace Lipid	KPH	1
409245004	**BL-MR1-CC4-G, 9/17/08**	EPA 8082	BDS	10
		Pace Lipid	KPH	1
409245005	**BL-MR1-RB1-G, 9/17/08**	EPA 8082	BDS	10
		Pace Lipid	KPH	1
409245006	**BL-UR1-LD5-G, 9/17/08**	EPA 8082	BDS	10
		Pace Lipid	KPH	1
409245007	**BL-UR1-LD6-G, 9/17/08**	EPA 8082	BDS	10
		Pace Lipid	KPH	1

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PROJECT NARRATIVE

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 409245

Method: **EPA 8082**
Description: 8082 GCS PCBs, Tissue
Client: POLLUTION RISK SERVICES
Date: October 17, 2008

General Information:
7 samples were analyzed for EPA 8082. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 3540 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

QC Batch: OEXT/2777

S4: Surrogate recovery not evaluated against control limits due to sample dilution.

- BL-MR1-CC1-G, 9/17/08 (Lab ID: 409245001)
  - Decachlorobiphenyl (S)
  - Tetrachloro-m-xylene (S)
- BL-MR1-CC2-G, 9/17/08 (Lab ID: 409245002)
  - Decachlorobiphenyl (S)
  - Tetrachloro-m-xylene (S)
- BL-MR1-CC3-G, 9/17/08 (Lab ID: 409245003)
  - Decachlorobiphenyl (S)
  - Tetrachloro-m-xylene (S)
- BL-MR1-CC4-G, 9/17/08 (Lab ID: 409245004)
  - Decachlorobiphenyl (S)
  - Tetrachloro-m-xylene (S)
- MS (Lab ID: 80756)
  - Decachlorobiphenyl (S)
  - Tetrachloro-m-xylene (S)
- MSD (Lab ID: 80757)
  - Decachlorobiphenyl (S)
  - Tetrachloro-m-xylene (S)

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

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PROJECT NARRATIVE

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 409245

Method: **EPA 8082**
Description: 8082 GCS PCBs, Tissue
Client: POLLUTION RISK SERVICES
Date: October 17, 2008

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: OEXT/2777

A matrix spike and matrix spike duplicate (MS/MSD) were performed on the following sample(s): 409245001

M6: Matrix spike and Matrix spike duplicate recovery not evaluated against control limits due to sample dilution.

- MS (Lab ID: 80756)
  - PCB-1254 (Aroclor 1254)
- MSD (Lab ID: 80757)
  - PCB-1254 (Aroclor 1254)

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 409245

Method: **Pace Lipid**
Description: Lipid
Client: POLLUTION RISK SERVICES
Date: October 17, 2008

General Information:
7 samples were analyzed for Pace Lipid. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

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ANALYTICAL RESULTS

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 409245

Sample: BL-MR1-CC1-G, 9/17/08 **Lab ID: 409245001** Collected: 09/17/08 00:00 Received: 09/19/08 13:40 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCBs, Tissue	Analytical Method: EPA 8082 Preparation Method: EPA 3540								
PCB-1016 (Aroclor 1016)	**<1900**	ug/kg	5000	1900	100	09/25/08 14:08	09/30/08 10:03	12674-11-2	
PCB-1221 (Aroclor 1221)	**<1900**	ug/kg	5000	1900	100	09/25/08 14:08	09/30/08 10:03	11104-28-2	
PCB-1232 (Aroclor 1232)	**<1900**	ug/kg	5000	1900	100	09/25/08 14:08	09/30/08 10:03	11141-16-5	
PCB-1242 (Aroclor 1242)	**<1900**	ug/kg	5000	1900	100	09/25/08 14:08	09/30/08 10:03	53469-21-9	
PCB-1248 (Aroclor 1248)	**9740**	ug/kg	5000	1900	100	09/25/08 14:08	09/30/08 10:03	12672-29-6	
PCB-1254 (Aroclor 1254)	**6160**	ug/kg	5000	1900	100	09/25/08 14:08	09/30/08 10:03	11097-69-1	
PCB-1260 (Aroclor 1260)	**<1900**	ug/kg	5000	1900	100	09/25/08 14:08	09/30/08 10:03	11096-82-5	
PCB, Total	**15900**	ug/kg	5000	1900	100	09/25/08 14:08	09/30/08 10:03	1336-36-3	
Tetrachloro-m-xylene (S)	0	%	40-136		100	09/25/08 14:08	09/30/08 10:03	877-09-8	S4
Decachlorobiphenyl (S)	0	%	47-145		100	09/25/08 14:08	09/30/08 10:03	2051-24-3	S4
Lipid	Analytical Method: Pace Lipid								
Lipid	**4.0**	%		0.10	1		09/29/08 07:20		

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ANALYTICAL RESULTS

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 409245

Sample: BL-MR1-CC2-G, 9/17/08 **Lab ID: 409245002** Collected: 09/17/08 00:00 Received: 09/19/08 13:40 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCBs, Tissue	Analytical Method: EPA 8082 Preparation Method: EPA 3540								
PCB-1016 (Aroclor 1016)	**<3800**	ug/kg	10000	3800	200	09/25/08 14:08	09/30/08 10:31	12674-11-2	
PCB-1221 (Aroclor 1221)	**<3800**	ug/kg	10000	3800	200	09/25/08 14:08	09/30/08 10:31	11104-28-2	
PCB-1232 (Aroclor 1232)	**<3800**	ug/kg	10000	3800	200	09/25/08 14:08	09/30/08 10:31	11141-16-5	
PCB-1242 (Aroclor 1242)	**<3800**	ug/kg	10000	3800	200	09/25/08 14:08	09/30/08 10:31	53469-21-9	
PCB-1248 (Aroclor 1248)	**28800**	ug/kg	10000	3800	200	09/25/08 14:08	09/30/08 10:31	12672-29-6	
PCB-1254 (Aroclor 1254)	**20500**	ug/kg	10000	3800	200	09/25/08 14:08	09/30/08 10:31	11097-69-1	
PCB-1260 (Aroclor 1260)	**<3800**	ug/kg	10000	3800	200	09/25/08 14:08	09/30/08 10:31	11096-82-5	
PCB, Total	**49200**	ug/kg	10000	3800	200	09/25/08 14:08	09/30/08 10:31	1336-36-3	
Tetrachloro-m-xylene (S)	0	%	40-136		200	09/25/08 14:08	09/30/08 10:31	877-09-8	S4
Decachlorobiphenyl (S)	0	%	47-145		200	09/25/08 14:08	09/30/08 10:31	2051-24-3	S4
Lipid	Analytical Method: Pace Lipid								
Lipid	**12.6**	%		0.10	1		09/29/08 07:21		

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ANALYTICAL RESULTS

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 409245

Sample: BL-MR1-CC3-G, 9/17/08 **Lab ID: 409245003** Collected: 09/17/08 00:00 Received: 09/19/08 13:40 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCBs, Tissue	Analytical Method: EPA 8082 Preparation Method: EPA 3540								
PCB-1016 (Aroclor 1016)	**<1900**	ug/kg	5000	1900	100	09/25/08 14:08	09/30/08 10:59	12674-11-2	
PCB-1221 (Aroclor 1221)	**<1900**	ug/kg	5000	1900	100	09/25/08 14:08	09/30/08 10:59	11104-28-2	
PCB-1232 (Aroclor 1232)	**<1900**	ug/kg	5000	1900	100	09/25/08 14:08	09/30/08 10:59	11141-16-5	
PCB-1242 (Aroclor 1242)	**<1900**	ug/kg	5000	1900	100	09/25/08 14:08	09/30/08 10:59	53469-21-9	
PCB-1248 (Aroclor 1248)	**17500**	ug/kg	5000	1900	100	09/25/08 14:08	09/30/08 10:59	12672-29-6	
PCB-1254 (Aroclor 1254)	**12300**	ug/kg	5000	1900	100	09/25/08 14:08	09/30/08 10:59	11097-69-1	
PCB-1260 (Aroclor 1260)	**<1900**	ug/kg	5000	1900	100	09/25/08 14:08	09/30/08 10:59	11096-82-5	
PCB, Total	**29800**	ug/kg	5000	1900	100	09/25/08 14:08	09/30/08 10:59	1336-36-3	
Tetrachloro-m-xylene (S)	0	%	40-136		100	09/25/08 14:08	09/30/08 10:59	877-09-8	S4
Decachlorobiphenyl (S)	0	%	47-145		100	09/25/08 14:08	09/30/08 10:59	2051-24-3	S4
Lipid	Analytical Method: Pace Lipid								
Lipid	**6.3**	%		0.10	1		09/29/08 07:21		

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ANALYTICAL RESULTS

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 409245

Sample: BL-MR1-CC4-G, 9/17/08 **Lab ID: 409245004** Collected: 09/17/08 00:00 Received: 09/19/08 13:40 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCBs, Tissue	Analytical Method: EPA 8082 Preparation Method: EPA 3540								
PCB-1016 (Aroclor 1016)	**<1900**	ug/kg	5000	1900	100	09/25/08 14:08	09/30/08 11:27	12674-11-2	
PCB-1221 (Aroclor 1221)	**<1900**	ug/kg	5000	1900	100	09/25/08 14:08	09/30/08 11:27	11104-28-2	
PCB-1232 (Aroclor 1232)	**<1900**	ug/kg	5000	1900	100	09/25/08 14:08	09/30/08 11:27	11141-16-5	
PCB-1242 (Aroclor 1242)	**<1900**	ug/kg	5000	1900	100	09/25/08 14:08	09/30/08 11:27	53469-21-9	
PCB-1248 (Aroclor 1248)	**9440**	ug/kg	5000	1900	100	09/25/08 14:08	09/30/08 11:27	12672-29-6	
PCB-1254 (Aroclor 1254)	**7140**	ug/kg	5000	1900	100	09/25/08 14:08	09/30/08 11:27	11097-69-1	
PCB-1260 (Aroclor 1260)	**<1900**	ug/kg	5000	1900	100	09/25/08 14:08	09/30/08 11:27	11096-82-5	
PCB, Total	**16600**	ug/kg	5000	1900	100	09/25/08 14:08	09/30/08 11:27	1336-36-3	
Tetrachloro-m-xylene (S)	0	%	40-136		100	09/25/08 14:08	09/30/08 11:27	877-09-8	S4
Decachlorobiphenyl (S)	0	%	47-145		100	09/25/08 14:08	09/30/08 11:27	2051-24-3	S4
Lipid	Analytical Method: Pace Lipid								
Lipid	**5.3**	%		0.10	1		09/29/08 07:21		

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ANALYTICAL RESULTS

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 409245

Sample: BL-MR1-RB1-G, 9/17/08 **Lab ID: 409245005** Collected: 09/17/08 00:00 Received: 09/19/08 13:40 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCBs, Tissue	Analytical Method: EPA 8082 Preparation Method: EPA 3540								
PCB-1016 (Aroclor 1016)	**<152**	ug/kg	400	152	4	09/25/08 14:08	09/30/08 11:55	12674-11-2	
PCB-1221 (Aroclor 1221)	**<152**	ug/kg	400	152	4	09/25/08 14:08	09/30/08 11:55	11104-28-2	
PCB-1232 (Aroclor 1232)	**<152**	ug/kg	400	152	4	09/25/08 14:08	09/30/08 11:55	11141-16-5	
PCB-1242 (Aroclor 1242)	**<152**	ug/kg	400	152	4	09/25/08 14:08	09/30/08 11:55	53469-21-9	
PCB-1248 (Aroclor 1248)	**1260**	ug/kg	400	152	4	09/25/08 14:08	09/30/08 11:55	12672-29-6	
PCB-1254 (Aroclor 1254)	**1370**	ug/kg	400	152	4	09/25/08 14:08	09/30/08 11:55	11097-69-1	
PCB-1260 (Aroclor 1260)	**157J**	ug/kg	400	152	4	09/25/08 14:08	09/30/08 11:55	11096-82-5	
PCB, Total	**2790**	ug/kg	400	152	4	09/25/08 14:08	09/30/08 11:55	1336-36-3	
Tetrachloro-m-xylene (S)	90	%	40-136		4	09/25/08 14:08	09/30/08 11:55	877-09-8	
Decachlorobiphenyl (S)	98	%	47-145		4	09/25/08 14:08	09/30/08 11:55	2051-24-3	
Lipid	Analytical Method: Pace Lipid								
Lipid	**0.81**	%		0.10	1		09/29/08 07:22		

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ANALYTICAL RESULTS

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 409245

Sample: BL-UR1-LD5-G, 9/17/08 **Lab ID: 409245006** Collected: 09/17/08 00:00 Received: 09/19/08 13:40 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCBs, Tissue	Analytical Method: EPA 8082 Preparation Method: EPA 3540								
PCB-1016 (Aroclor 1016)	**<760**	ug/kg	2000	760	10	09/25/08 14:08	09/30/08 12:23	12674-11-2	
PCB-1221 (Aroclor 1221)	**<760**	ug/kg	2000	760	10	09/25/08 14:08	09/30/08 12:23	11104-28-2	
PCB-1232 (Aroclor 1232)	**<760**	ug/kg	2000	760	10	09/25/08 14:08	09/30/08 12:23	11141-16-5	
PCB-1242 (Aroclor 1242)	**<760**	ug/kg	2000	760	10	09/25/08 14:08	09/30/08 12:23	53469-21-9	
PCB-1248 (Aroclor 1248)	**6900**	ug/kg	2000	760	10	09/25/08 14:08	09/30/08 12:23	12672-29-6	
PCB-1254 (Aroclor 1254)	**8240**	ug/kg	2000	760	10	09/25/08 14:08	09/30/08 12:23	11097-69-1	
PCB-1260 (Aroclor 1260)	**<760**	ug/kg	2000	760	10	09/25/08 14:08	09/30/08 12:23	11096-82-5	
PCB, Total	**15100**	ug/kg	2000	760	10	09/25/08 14:08	09/30/08 12:23	1336-36-3	
Tetrachloro-m-xylene (S)	96	%	40-136		10	09/25/08 14:08	09/30/08 12:23	877-09-8	
Decachlorobiphenyl (S)	108	%	47-145		10	09/25/08 14:08	09/30/08 12:23	2051-24-3	
Lipid	Analytical Method: Pace Lipid								
Lipid	**4.0**	%		0.10	1		09/29/08 07:22		

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ANALYTICAL RESULTS

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 409245

Sample: BL-UR1-LD6-G, 9/17/08 **Lab ID: 409245007** Collected: 09/17/08 00:00 Received: 09/19/08 13:40 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCBs, Tissue	Analytical Method: EPA 8082 Preparation Method: EPA 3540								
PCB-1016 (Aroclor 1016)	**<302**	ug/kg	794	302	1	09/25/08 14:08	09/30/08 12:51	12674-11-2	
PCB-1221 (Aroclor 1221)	**<302**	ug/kg	794	302	1	09/25/08 14:08	09/30/08 12:51	11104-28-2	
PCB-1232 (Aroclor 1232)	**<302**	ug/kg	794	302	1	09/25/08 14:08	09/30/08 12:51	11141-16-5	
PCB-1242 (Aroclor 1242)	**<302**	ug/kg	794	302	1	09/25/08 14:08	09/30/08 12:51	53469-21-9	
PCB-1248 (Aroclor 1248)	**3290**	ug/kg	794	302	1	09/25/08 14:08	09/30/08 12:51	12672-29-6	
PCB-1254 (Aroclor 1254)	**1820**	ug/kg	794	302	1	09/25/08 14:08	09/30/08 12:51	11097-69-1	
PCB-1260 (Aroclor 1260)	**<302**	ug/kg	794	302	1	09/25/08 14:08	09/30/08 12:51	11096-82-5	
PCB, Total	**5110**	ug/kg	794	302	1	09/25/08 14:08	09/30/08 12:51	1336-36-3	
Tetrachloro-m-xylene (S)	93	%	40-136		1	09/25/08 14:08	09/30/08 12:51	877-09-8	
Decachlorobiphenyl (S)	97	%	47-145		1	09/25/08 14:08	09/30/08 12:51	2051-24-3	
Lipid	Analytical Method: Pace Lipid								
Lipid	**4.4**	%		0.10	1		09/29/08 07:22		

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QUALITY CONTROL DATA

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 409245

QC Batch: OEXT/2777 Analysis Method: EPA 8082
QC Batch Method: EPA 3540 Analysis Description: 8082 GCS Tissue Pesticides
Associated Lab Samples: 409245001, 409245002, 409245003, 409245004, 409245005, 409245006, 409245007

METHOD BLANK: 80754 Matrix: Tissue
Associated Lab Samples: 409245001, 409245002, 409245003, 409245004, 409245005, 409245006, 409245007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg	<19.0	50.0	09/30/08 08:11	
PCB-1221 (Aroclor 1221)	ug/kg	<19.0	50.0	09/30/08 08:11	
PCB-1232 (Aroclor 1232)	ug/kg	<19.0	50.0	09/30/08 08:11	
PCB-1242 (Aroclor 1242)	ug/kg	<19.0	50.0	09/30/08 08:11	
PCB-1248 (Aroclor 1248)	ug/kg	<19.0	50.0	09/30/08 08:11	
PCB-1254 (Aroclor 1254)	ug/kg	<19.0	50.0	09/30/08 08:11	
PCB-1260 (Aroclor 1260)	ug/kg	<19.0	50.0	09/30/08 08:11	
Decachlorobiphenyl (S)	%	96	47-145	09/30/08 08:11	
Tetrachloro-m-xylene (S)	%	99	40-136	09/30/08 08:11	

LABORATORY CONTROL SAMPLE: 80755

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg		<19.0			
PCB-1221 (Aroclor 1221)	ug/kg		<19.0			
PCB-1232 (Aroclor 1232)	ug/kg		<19.0			
PCB-1242 (Aroclor 1242)	ug/kg		<19.0			
PCB-1248 (Aroclor 1248)	ug/kg		<19.0			
PCB-1254 (Aroclor 1254)	ug/kg	250	272	109	40-128	
PCB-1260 (Aroclor 1260)	ug/kg		<19.0			
Decachlorobiphenyl (S)	%			101	47-145	
Tetrachloro-m-xylene (S)	%			100	40-136	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 80756 80757

Parameter	Units	409245001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
PCB-1016 (Aroclor 1016)	ug/kg	<1900			<1900	<1900					56	
PCB-1221 (Aroclor 1221)	ug/kg	<1900			<1900	<1900					56	
PCB-1232 (Aroclor 1232)	ug/kg	<1900			<1900	<1900					56	
PCB-1242 (Aroclor 1242)	ug/kg	<1900			<1900	<1900					56	
PCB-1248 (Aroclor 1248)	ug/kg	9740			13100	13000				.7	56	
PCB-1254 (Aroclor 1254)	ug/kg	6160	1000	1000	9520	9500	336	334	43-130	.3	56	M6
PCB-1260 (Aroclor 1260)	ug/kg	<1900			<1900	<1900					56	
Decachlorobiphenyl (S)	%						0	0	47-145			S4
Tetrachloro-m-xylene (S)	%						0	0	40-136			S4

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QUALITY CONTROL DATA

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 409245

QC Batch: OEXT/2786 Analysis Method: Pace Lipid
QC Batch Method: Pace Lipid Analysis Description: LIPID
Associated Lab Samples: 409245001, 409245002, 409245003, 409245004, 409245005, 409245006, 409245007

METHOD BLANK: 81220 Matrix: Tissue
Associated Lab Samples: 409245001, 409245002, 409245003, 409245004, 409245005, 409245006, 409245007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lipid	%	<0.10		09/29/08 07:20	

SAMPLE DUPLICATE: 81221

Parameter	Units	409245001 Result	Dup Result	RPD	Max RPD	Qualifiers
Lipid	%	4.0	3.8	5	20	

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QUALIFIERS

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 409245

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

Pace Analytical is NELAP accredited. Contact your Pace PM for the current list of accredited analytes.

ANALYTE QUALIFIERS

M6	Matrix spike and Matrix spike duplicate recovery not evaluated against control limits due to sample dilution.
S4	Surrogate recovery not evaluated against control limits due to sample dilution.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 409245

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
409245001	**BL-MR1-CC1-G, 9/17/08**	EPA 3540	OEXT/2777	EPA 8082	GCSV/1947
409245002	**BL-MR1-CC2-G, 9/17/08**	EPA 3540	OEXT/2777	EPA 8082	GCSV/1947
409245003	**BL-MR1-CC3-G, 9/17/08**	EPA 3540	OEXT/2777	EPA 8082	GCSV/1947
409245004	**BL-MR1-CC4-G, 9/17/08**	EPA 3540	OEXT/2777	EPA 8082	GCSV/1947
409245005	**BL-MR1-RB1-G, 9/17/08**	EPA 3540	OEXT/2777	EPA 8082	GCSV/1947
409245006	**BL-UR1-LD5-G, 9/17/08**	EPA 3540	OEXT/2777	EPA 8082	GCSV/1947
409245007	**BL-UR1-LD6-G, 9/17/08**	EPA 3540	OEXT/2777	EPA 8082	GCSV/1947
409245001	**BL-MR1-CC1-G, 9/17/08**	Pace Lipid	OEXT/2786		
409245002	**BL-MR1-CC2-G, 9/17/08**	Pace Lipid	OEXT/2786		
409245003	**BL-MR1-CC3-G, 9/17/08**	Pace Lipid	OEXT/2786		
409245004	**BL-MR1-CC4-G, 9/17/08**	Pace Lipid	OEXT/2786		
409245005	**BL-MR1-RB1-G, 9/17/08**	Pace Lipid	OEXT/2786		
409245006	**BL-UR1-LD5-G, 9/17/08**	Pace Lipid	OEXT/2786		
409245007	**BL-UR1-LD6-G, 9/17/08**	Pace Lipid	OEXT/2786		

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October 17, 2008

BRANDY PROFFITT
POLLUTION RISK SERVICES
7870 EAST KEMPER ROAD
SUITE 240
Cincinnati, OH 45249

RE: Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 408328

Dear BRANDY PROFFITT:
Enclosed are the analytical results for sample(s) received by the laboratory on August 28, 2008. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Tod Noltemeyer

Tod Noltemeyer

tod.noltemeyer@pacelabs.com
Project Manager

Enclosures

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CERTIFICATIONS

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 408328

Green Bay Certification IDs

Louisiana Certification #: 04169
Louisiana Certification #: 04168
Kentucky Certification #: 83
Kentucky Certification #: 82
Wisconsin DATCP Certification #: 105-444
Wisconsin DATCP Certification #: 105-444
Wisconsin Certification #: 405132750
Wisconsin Certification #: 405132750
South Carolina Certification #: 83006001
South Carolina Certification #: 83006001
Minnesota Certification #: 055-999-334
Minnesota Certification #: 055-999-334
North Carolina Certification #: 503
North Carolina Certification #: 503
North Dakota Certification #: R-200
North Dakota Certification #: R-150
New York Certification #: 11888
New York Certification #: 11887
Illinois Certification #: 200051
Illinois Certification #: 200050
Florida (NELAP) Certification #: E87951
Florida (NELAP) Certification #: E87948

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SAMPLE SUMMARY

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 408328

Lab ID	Sample ID	Matrix	Date Collected	Date Received
408328001	BL-UR2-RB5-G, 8/22/08	Tissue	08/22/08 00:00	08/28/08 14:50
408328002	BL-UR2-RB6-G, 8/22/08	Tissue	08/22/08 00:00	08/28/08 14:50
408328003	BL-UR2-RB7-G, 8/22/08	Tissue	08/22/08 00:00	08/28/08 14:50
408328004	BL-LR-SB1-G, 8/25/08	Tissue	08/25/08 00:00	08/28/08 14:50
408328005	BL-LR-SB2-G, 8/25/08	Tissue	08/25/08 00:00	08/28/08 14:50
408328006	BL-LR-SB3-G, 8/25/08	Tissue	08/25/08 00:00	08/28/08 14:50
408328007	BL-LR-SB4-G, 8/25/08	Tissue	08/25/08 00:00	08/28/08 14:50
408328008	BL-LR-SB5-G, 8/25/08	Tissue	08/25/08 00:00	08/28/08 14:50
408328009	BL-LR-SB6-G, 8/25/08	Tissue	08/25/08 00:00	08/28/08 14:50
408328010	BL-LR-SB7-G, 8/25/08	Tissue	08/25/08 00:00	08/28/08 14:50
408328011	BL-LR-SB8-G, 8/25/08	Tissue	08/25/08 00:00	08/28/08 14:50
408328012	BL-LR-JWS1-G, 8/25/08	Tissue	08/25/08 00:00	08/28/08 14:50
408328013	BL-LR-AWS1-G, 8/25/08	Tissue	08/25/08 00:00	08/28/08 14:50
408328014	BL-LR-AWS2-G, 8/25/08	Tissue	08/25/08 00:00	08/28/08 14:50
408328015	BL-LR-AC1-G, 8/25/08	Tissue	08/25/08 00:00	08/28/08 14:50
408328016	BL-LR-AC2-G, 8/25/08	Tissue	08/25/08 00:00	08/28/08 14:50
408328017	BL-LR-CC1-G, 8/25/08	Tissue	08/25/08 00:00	08/28/08 14:50
408328018	BL-LR-CC2-G, 8/25/08	Tissue	08/25/08 00:00	08/28/08 14:50
408328019	BL-LR-CC3-G, 8/25/08	Tissue	08/25/08 00:00	08/28/08 14:50
408328020	BL-LR-CC4-G, 8/25/08	Tissue	08/25/08 00:00	08/28/08 14:50

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SAMPLE ANALYTE COUNT

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 408328

Lab ID	Sample ID	Method	Analysts	Analytes Reported
408328001	BL-UR2-RB5-G, 8/22/08	EPA 8082	BDS	10
		Pace Lipid	KPH	1
408328002	BL-UR2-RB6-G, 8/22/08	EPA 8082	BDS	10
		Pace Lipid	KPH	1
408328003	BL-UR2-RB7-G, 8/22/08	EPA 8082	BDS	10
		Pace Lipid	KPH	1
408328004	BL-LR-SB1-G, 8/25/08	EPA 8082	BDS	10
		Pace Lipid	KPH	1
408328005	BL-LR-SB2-G, 8/25/08	EPA 8082	BDS	10
		Pace Lipid	KPH	1
408328006	BL-LR-SB3-G, 8/25/08	EPA 8082	BDS	10
		Pace Lipid	KPH	1
408328007	BL-LR-SB4-G, 8/25/08	EPA 8082	BDS	10
		Pace Lipid	KPH	1
408328008	BL-LR-SB5-G, 8/25/08	EPA 8082	BDS	10
		Pace Lipid	KPH	1
408328009	BL-LR-SB6-G, 8/25/08	EPA 8082	BDS	10
		Pace Lipid	KPH	1
408328010	BL-LR-SB7-G, 8/25/08	EPA 8082	BDS	10
		Pace Lipid	KPH	1
408328011	BL-LR-SB8-G, 8/25/08	EPA 8082	BDS	10
		Pace Lipid	KPH	1
408328012	BL-LR-JWS1-G, 8/25/08	EPA 8082	BDS	10
		Pace Lipid	KPH	1
408328013	BL-LR-AWS1-G, 8/25/08	EPA 8082	BDS	10
		Pace Lipid	KPH	1
408328014	BL-LR-AWS2-G, 8/25/08	EPA 8082	BDS	10
		Pace Lipid	KPH	1
408328015	BL-LR-AC1-G, 8/25/08	EPA 8082	BDS	10
		Pace Lipid	KPH	1
408328016	BL-LR-AC2-G, 8/25/08	EPA 8082	BDS	10
		Pace Lipid	KPH	1
408328017	BL-LR-CC1-G, 8/25/08	EPA 8082	BDS	10
		Pace Lipid	KPH	1
408328018	BL-LR-CC2-G, 8/25/08	EPA 8082	BDS	10
		Pace Lipid	KPH	1
408328019	BL-LR-CC3-G, 8/25/08	EPA 8082	BDS	10

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SAMPLE ANALYTE COUNT

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 408328

Lab ID	Sample ID	Method	Analysts	Analytes Reported
		Pace Lipid	KPH	1
408328020	**BL-LR-CC4-G, 8/25/08**	EPA 8082	BDS	10
		Pace Lipid	KPH	1

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PROJECT NARRATIVE

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 408328

Method: **EPA 8082**
Description: 8082 GCS PCBs, Tissue
Client: POLLUTION RISK SERVICES
Date: October 17, 2008

General Information:
20 samples were analyzed for EPA 8082. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 3540 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

QC Batch: OEXT/2765

S4: Surrogate recovery not evaluated against control limits due to sample dilution.

- BL-LR-AC2-G, 8/25/08 (Lab ID: 408328016)
  - Decachlorobiphenyl (S)
  - Tetrachloro-m-xylene (S)
- BL-LR-CC1-G, 8/25/08 (Lab ID: 408328017)
  - Decachlorobiphenyl (S)
  - Tetrachloro-m-xylene (S)
- BL-LR-CC2-G, 8/25/08 (Lab ID: 408328018)
  - Decachlorobiphenyl (S)
  - Tetrachloro-m-xylene (S)
- BL-LR-CC3-G, 8/25/08 (Lab ID: 408328019)
  - Decachlorobiphenyl (S)
  - Tetrachloro-m-xylene (S)
- BL-LR-CC4-G, 8/25/08 (Lab ID: 408328020)
  - Decachlorobiphenyl (S)
  - Tetrachloro-m-xylene (S)
- BL-LR-SB1-G, 8/25/08 (Lab ID: 408328004)
  - Decachlorobiphenyl (S)
  - Tetrachloro-m-xylene (S)
- BL-LR-SB2-G, 8/25/08 (Lab ID: 408328005)
  - Decachlorobiphenyl (S)
  - Tetrachloro-m-xylene (S)
- BL-LR-SB5-G, 8/25/08 (Lab ID: 408328008)
  - Decachlorobiphenyl (S)
  - Tetrachloro-m-xylene (S)
- BL-LR-SB6-G, 8/25/08 (Lab ID: 408328009)

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PROJECT NARRATIVE

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 408328

Method: **EPA 8082**
Description: 8082 GCS PCBs, Tissue
Client: POLLUTION RISK SERVICES
Date: October 17, 2008

QC Batch: OEXT/2765

S4: Surrogate recovery not evaluated against control limits due to sample dilution.

- Decachlorobiphenyl (S)
- Tetrachloro-m-xylene (S)
- BL-LR-SB7-G, 8/25/08 (Lab ID: 408328010)
  - Decachlorobiphenyl (S)
  - Tetrachloro-m-xylene (S)
- BL-LR-SB8-G, 8/25/08 (Lab ID: 408328011)
  - Decachlorobiphenyl (S)
  - Tetrachloro-m-xylene (S)
- BL-UR2-RB5-G, 8/22/08 (Lab ID: 408328001)
  - Decachlorobiphenyl (S)
  - Tetrachloro-m-xylene (S)
- MS (Lab ID: 80356)
  - Decachlorobiphenyl (S)
  - Tetrachloro-m-xylene (S)
- MSD (Lab ID: 80357)
  - Decachlorobiphenyl (S)
  - Tetrachloro-m-xylene (S)

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: OEXT/2765

A matrix spike and matrix spike duplicate (MS/MSD) were performed on the following sample(s): 408328006

M0: Matrix spike recovery was outside laboratory control limits.

- MS (Lab ID: 80356)
  - PCB-1242 (Aroclor 1242)
- MSD (Lab ID: 80357)
  - PCB-1242 (Aroclor 1242)

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 408328

Method: **Pace Lipid**
Description: Lipid
Client: POLLUTION RISK SERVICES
Date: October 17, 2008

General Information:
20 samples were analyzed for Pace Lipid. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

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ANALYTICAL RESULTS

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 408328

Sample: BL-UR2-RB5-G, 8/22/08 **Lab ID: 408328001** Collected: 08/22/08 00:00 Received: 08/28/08 14:50 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCBs, Tissue	Analytical Method: EPA 8082 Preparation Method: EPA 3540								
PCB-1016 (Aroclor 1016)	**<380**	ug/kg	1000	380	20	09/24/08 13:56	09/29/08 21:00	12674-11-2	
PCB-1221 (Aroclor 1221)	**<380**	ug/kg	1000	380	20	09/24/08 13:56	09/29/08 21:00	11104-28-2	
PCB-1232 (Aroclor 1232)	**<380**	ug/kg	1000	380	20	09/24/08 13:56	09/29/08 21:00	11141-16-5	
PCB-1242 (Aroclor 1242)	**<380**	ug/kg	1000	380	20	09/24/08 13:56	09/29/08 21:00	53469-21-9	
PCB-1248 (Aroclor 1248)	**2270**	ug/kg	1000	380	20	09/24/08 13:56	09/29/08 21:00	12672-29-6	
PCB-1254 (Aroclor 1254)	**2050**	ug/kg	1000	380	20	09/24/08 13:56	09/29/08 21:00	11097-69-1	
PCB-1260 (Aroclor 1260)	**<380**	ug/kg	1000	380	20	09/24/08 13:56	09/29/08 21:00	11096-82-5	
PCB, Total	**4320**	ug/kg	1000	380	20	09/24/08 13:56	09/29/08 21:00	1336-36-3	
Tetrachloro-m-xylene (S)	0	%	40-136		20	09/24/08 13:56	09/29/08 21:00	877-09-8	S4
Decachlorobiphenyl (S)	0	%	47-145		20	09/24/08 13:56	09/29/08 21:00	2051-24-3	S4
Lipid	Analytical Method: Pace Lipid								
Lipid	**0.47**	%		0.10	1		09/26/08 09:18		

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ANALYTICAL RESULTS

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 408328

Sample: BL-UR2-RB6-G, 8/22/08 **Lab ID: 408328002** Collected: 08/22/08 00:00 Received: 08/28/08 14:50 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCBs, Tissue	Analytical Method: EPA 8082 Preparation Method: EPA 3540								
PCB-1016 (Aroclor 1016)	**<190**	ug/kg	500	190	10	09/24/08 13:56	09/29/08 21:28	12674-11-2	
PCB-1221 (Aroclor 1221)	**<190**	ug/kg	500	190	10	09/24/08 13:56	09/29/08 21:28	11104-28-2	
PCB-1232 (Aroclor 1232)	**<190**	ug/kg	500	190	10	09/24/08 13:56	09/29/08 21:28	11141-16-5	
PCB-1242 (Aroclor 1242)	**<190**	ug/kg	500	190	10	09/24/08 13:56	09/29/08 21:28	53469-21-9	
PCB-1248 (Aroclor 1248)	**2340**	ug/kg	500	190	10	09/24/08 13:56	09/29/08 21:28	12672-29-6	
PCB-1254 (Aroclor 1254)	**1430**	ug/kg	500	190	10	09/24/08 13:56	09/29/08 21:28	11097-69-1	
PCB-1260 (Aroclor 1260)	**<190**	ug/kg	500	190	10	09/24/08 13:56	09/29/08 21:28	11096-82-5	
PCB, Total	**3780**	ug/kg	500	190	10	09/24/08 13:56	09/29/08 21:28	1336-36-3	
Tetrachloro-m-xylene (S)	98	%	40-136		10	09/24/08 13:56	09/29/08 21:28	877-09-8	
Decachlorobiphenyl (S)	108	%	47-145		10	09/24/08 13:56	09/29/08 21:28	2051-24-3	
Lipid	Analytical Method: Pace Lipid								
Lipid	**0.70**	%		0.10	1		09/26/08 09:18		

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1241 Bellevue Street
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 408328

Sample: BL-UR2-RB7-G, 8/22/08 **Lab ID: 408328003** Collected: 08/22/08 00:00 Received: 08/28/08 14:50 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCBs, Tissue	Analytical Method: EPA 8082 Preparation Method: EPA 3540								
PCB-1016 (Aroclor 1016)	**<190**	ug/kg	500	190	10	09/24/08 13:56	09/29/08 21:56	12674-11-2	
PCB-1221 (Aroclor 1221)	**<190**	ug/kg	500	190	10	09/24/08 13:56	09/29/08 21:56	11104-28-2	
PCB-1232 (Aroclor 1232)	**<190**	ug/kg	500	190	10	09/24/08 13:56	09/29/08 21:56	11141-16-5	
PCB-1242 (Aroclor 1242)	**<190**	ug/kg	500	190	10	09/24/08 13:56	09/29/08 21:56	53469-21-9	
PCB-1248 (Aroclor 1248)	**1820**	ug/kg	500	190	10	09/24/08 13:56	09/29/08 21:56	12672-29-6	
PCB-1254 (Aroclor 1254)	**1220**	ug/kg	500	190	10	09/24/08 13:56	09/29/08 21:56	11097-69-1	
PCB-1260 (Aroclor 1260)	**<190**	ug/kg	500	190	10	09/24/08 13:56	09/29/08 21:56	11096-82-5	
PCB, Total	**3040**	ug/kg	500	190	10	09/24/08 13:56	09/29/08 21:56	1336-36-3	
Tetrachloro-m-xylene (S)	88	%	40-136		10	09/24/08 13:56	09/29/08 21:56	877-09-8	
Decachlorobiphenyl (S)	103	%	47-145		10	09/24/08 13:56	09/29/08 21:56	2051-24-3	
Lipid	Analytical Method: Pace Lipid								
Lipid	**0.58**	%		0.10	1		09/26/08 09:19		

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ANALYTICAL RESULTS

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 408328

Sample: BL-LR-SB1-G, 8/25/08 **Lab ID: 408328004** Collected: 08/25/08 00:00 Received: 08/28/08 14:50 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCBs, Tissue	Analytical Method: EPA 8082 Preparation Method: EPA 3540								
PCB-1016 (Aroclor 1016)	**<570**	ug/kg	1500	570	30	09/24/08 13:56	09/29/08 22:24	12674-11-2	
PCB-1221 (Aroclor 1221)	**<570**	ug/kg	1500	570	30	09/24/08 13:56	09/29/08 22:24	11104-28-2	
PCB-1232 (Aroclor 1232)	**<570**	ug/kg	1500	570	30	09/24/08 13:56	09/29/08 22:24	11141-16-5	
PCB-1242 (Aroclor 1242)	**<570**	ug/kg	1500	570	30	09/24/08 13:56	09/29/08 22:24	53469-21-9	
PCB-1248 (Aroclor 1248)	**4440**	ug/kg	1500	570	30	09/24/08 13:56	09/29/08 22:24	12672-29-6	
PCB-1254 (Aroclor 1254)	**3720**	ug/kg	1500	570	30	09/24/08 13:56	09/29/08 22:24	11097-69-1	
PCB-1260 (Aroclor 1260)	**<570**	ug/kg	1500	570	30	09/24/08 13:56	09/29/08 22:24	11096-82-5	
PCB, Total	**8170**	ug/kg	1500	570	30	09/24/08 13:56	09/29/08 22:24	1336-36-3	
Tetrachloro-m-xylene (S)	0	%	40-136		30	09/24/08 13:56	09/29/08 22:24	877-09-8	S4
Decachlorobiphenyl (S)	0	%	47-145		30	09/24/08 13:56	09/29/08 22:24	2051-24-3	S4
Lipid	Analytical Method: Pace Lipid								
Lipid	**1.2**	%		0.10	1		09/26/08 09:19		

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ANALYTICAL RESULTS

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 408328

Sample: BL-LR-SB2-G, 8/25/08 **Lab ID: 408328005** Collected: 08/25/08 00:00 Received: 08/28/08 14:50 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCBs, Tissue	Analytical Method: EPA 8082 Preparation Method: EPA 3540								
PCB-1016 (Aroclor 1016)	**<380**	ug/kg	1000	380	20	09/24/08 13:56	09/29/08 22:52	12674-11-2	
PCB-1221 (Aroclor 1221)	**<380**	ug/kg	1000	380	20	09/24/08 13:56	09/29/08 22:52	11104-28-2	
PCB-1232 (Aroclor 1232)	**<380**	ug/kg	1000	380	20	09/24/08 13:56	09/29/08 22:52	11141-16-5	
PCB-1242 (Aroclor 1242)	**<380**	ug/kg	1000	380	20	09/24/08 13:56	09/29/08 22:52	53469-21-9	
PCB-1248 (Aroclor 1248)	**2600**	ug/kg	1000	380	20	09/24/08 13:56	09/29/08 22:52	12672-29-6	
PCB-1254 (Aroclor 1254)	**2540**	ug/kg	1000	380	20	09/24/08 13:56	09/29/08 22:52	11097-69-1	
PCB-1260 (Aroclor 1260)	**<380**	ug/kg	1000	380	20	09/24/08 13:56	09/29/08 22:52	11096-82-5	
PCB, Total	**5140**	ug/kg	1000	380	20	09/24/08 13:56	09/29/08 22:52	1336-36-3	
Tetrachloro-m-xylene (S)	0	%	40-136		20	09/24/08 13:56	09/29/08 22:52	877-09-8	S4
Decachlorobiphenyl (S)	0	%	47-145		20	09/24/08 13:56	09/29/08 22:52	2051-24-3	S4
Lipid	Analytical Method: Pace Lipid								
Lipid	**0.38**	%		0.10	1		09/26/08 09:19		

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ANALYTICAL RESULTS

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 408328

Sample: BL-LR-SB3-G, 8/25/08 **Lab ID: 408328006** Collected: 08/25/08 00:00 Received: 08/28/08 14:50 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCBs, Tissue	Analytical Method: EPA 8082 Preparation Method: EPA 3540								
PCB-1016 (Aroclor 1016)	**<190**	ug/kg	500	190	10	09/24/08 13:56	09/29/08 23:20	12674-11-2	
PCB-1221 (Aroclor 1221)	**<190**	ug/kg	500	190	10	09/24/08 13:56	09/29/08 23:20	11104-28-2	
PCB-1232 (Aroclor 1232)	**<190**	ug/kg	500	190	10	09/24/08 13:56	09/29/08 23:20	11141-16-5	
PCB-1242 (Aroclor 1242)	**<190**	ug/kg	500	190	10	09/24/08 13:56	09/29/08 23:20	53469-21-9	M0
PCB-1248 (Aroclor 1248)	**1140**	ug/kg	500	190	10	09/24/08 13:56	09/29/08 23:20	12672-29-6	
PCB-1254 (Aroclor 1254)	**888**	ug/kg	500	190	10	09/24/08 13:56	09/29/08 23:20	11097-69-1	
PCB-1260 (Aroclor 1260)	**<190**	ug/kg	500	190	10	09/24/08 13:56	09/29/08 23:20	11096-82-5	
PCB, Total	**2020**	ug/kg	500	190	10	09/24/08 13:56	09/29/08 23:20	1336-36-3	
Tetrachloro-m-xylene (S)	48	%	40-136		10	09/24/08 13:56	09/29/08 23:20	877-09-8	
Decachlorobiphenyl (S)	55	%	47-145		10	09/24/08 13:56	09/29/08 23:20	2051-24-3	
Lipid	Analytical Method: Pace Lipid								
Lipid	**0.65**	%		0.10	1		09/26/08 09:19		

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ANALYTICAL RESULTS

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 408328

Sample: BL-LR-SB4-G, 8/25/08 **Lab ID: 408328007** Collected: 08/25/08 00:00 Received: 08/28/08 14:50 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCBs, Tissue	Analytical Method: EPA 8082 Preparation Method: EPA 3540								
PCB-1016 (Aroclor 1016)	**<190**	ug/kg	500	190	10	09/24/08 13:56	09/29/08 23:48	12674-11-2	
PCB-1221 (Aroclor 1221)	**<190**	ug/kg	500	190	10	09/24/08 13:56	09/29/08 23:48	11104-28-2	
PCB-1232 (Aroclor 1232)	**<190**	ug/kg	500	190	10	09/24/08 13:56	09/29/08 23:48	11141-16-5	
PCB-1242 (Aroclor 1242)	**<190**	ug/kg	500	190	10	09/24/08 13:56	09/29/08 23:48	53469-21-9	
PCB-1248 (Aroclor 1248)	**948**	ug/kg	500	190	10	09/24/08 13:56	09/29/08 23:48	12672-29-6	
PCB-1254 (Aroclor 1254)	**829**	ug/kg	500	190	10	09/24/08 13:56	09/29/08 23:48	11097-69-1	
PCB-1260 (Aroclor 1260)	**<190**	ug/kg	500	190	10	09/24/08 13:56	09/29/08 23:48	11096-82-5	
PCB, Total	**1780**	ug/kg	500	190	10	09/24/08 13:56	09/29/08 23:48	1336-36-3	
Tetrachloro-m-xylene (S)	47	%	40-136		10	09/24/08 13:56	09/29/08 23:48	877-09-8	
Decachlorobiphenyl (S)	54	%	47-145		10	09/24/08 13:56	09/29/08 23:48	2051-24-3	
Lipid	Analytical Method: Pace Lipid								
Lipid	**0.68**	%		0.10	1		09/26/08 09:20		

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ANALYTICAL RESULTS

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 408328

Sample: BL-LR-SB5-G, 8/25/08 **Lab ID: 408328008** Collected: 08/25/08 00:00 Received: 08/28/08 14:50 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCBs, Tissue	Analytical Method: EPA 8082 Preparation Method: EPA 3540								
PCB-1016 (Aroclor 1016)	**<380**	ug/kg	1000	380	20	09/24/08 13:56	09/30/08 00:16	12674-11-2	
PCB-1221 (Aroclor 1221)	**<380**	ug/kg	1000	380	20	09/24/08 13:56	09/30/08 00:16	11104-28-2	
PCB-1232 (Aroclor 1232)	**<380**	ug/kg	1000	380	20	09/24/08 13:56	09/30/08 00:16	11141-16-5	
PCB-1242 (Aroclor 1242)	**<380**	ug/kg	1000	380	20	09/24/08 13:56	09/30/08 00:16	53469-21-9	
PCB-1248 (Aroclor 1248)	**3970**	ug/kg	1000	380	20	09/24/08 13:56	09/30/08 00:16	12672-29-6	
PCB-1254 (Aroclor 1254)	**3040**	ug/kg	1000	380	20	09/24/08 13:56	09/30/08 00:16	11097-69-1	
PCB-1260 (Aroclor 1260)	**<380**	ug/kg	1000	380	20	09/24/08 13:56	09/30/08 00:16	11096-82-5	
PCB, Total	**7010**	ug/kg	1000	380	20	09/24/08 13:56	09/30/08 00:16	1336-36-3	
Tetrachloro-m-xylene (S)	0	%	40-136		20	09/24/08 13:56	09/30/08 00:16	877-09-8	S4
Decachlorobiphenyl (S)	0	%	47-145		20	09/24/08 13:56	09/30/08 00:16	2051-24-3	S4
Lipid	Analytical Method: Pace Lipid								
Lipid	**1.5**	%		0.10	1		09/26/08 09:20		

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ANALYTICAL RESULTS

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 408328

Sample: BL-LR-SB6-G, 8/25/08 **Lab ID: 408328009** Collected: 08/25/08 00:00 Received: 08/28/08 14:50 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCBs, Tissue	Analytical Method: EPA 8082 Preparation Method: EPA 3540								
PCB-1016 (Aroclor 1016)	**<380**	ug/kg	1000	380	20	09/24/08 13:56	09/30/08 01:40	12674-11-2	
PCB-1221 (Aroclor 1221)	**<380**	ug/kg	1000	380	20	09/24/08 13:56	09/30/08 01:40	11104-28-2	
PCB-1232 (Aroclor 1232)	**<380**	ug/kg	1000	380	20	09/24/08 13:56	09/30/08 01:40	11141-16-5	
PCB-1242 (Aroclor 1242)	**<380**	ug/kg	1000	380	20	09/24/08 13:56	09/30/08 01:40	53469-21-9	
PCB-1248 (Aroclor 1248)	**2480**	ug/kg	1000	380	20	09/24/08 13:56	09/30/08 01:40	12672-29-6	
PCB-1254 (Aroclor 1254)	**2360**	ug/kg	1000	380	20	09/24/08 13:56	09/30/08 01:40	11097-69-1	
PCB-1260 (Aroclor 1260)	**<380**	ug/kg	1000	380	20	09/24/08 13:56	09/30/08 01:40	11096-82-5	
PCB, Total	**4840**	ug/kg	1000	380	20	09/24/08 13:56	09/30/08 01:40	1336-36-3	
Tetrachloro-m-xylene (S)	0	%	40-136		20	09/24/08 13:56	09/30/08 01:40	877-09-8	S4
Decachlorobiphenyl (S)	0	%	47-145		20	09/24/08 13:56	09/30/08 01:40	2051-24-3	S4
Lipid	Analytical Method: Pace Lipid								
Lipid	**0.92**	%		0.10	1		09/26/08 09:20		

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ANALYTICAL RESULTS

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 408328

Sample: BL-LR-SB7-G, 8/25/08 **Lab ID: 408328010** Collected: 08/25/08 00:00 Received: 08/28/08 14:50 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCBs, Tissue	Analytical Method: EPA 8082 Preparation Method: EPA 3540								
PCB-1016 (Aroclor 1016)	**<570**	ug/kg	1500	570	30	09/24/08 13:56	09/30/08 02:08	12674-11-2	
PCB-1221 (Aroclor 1221)	**<570**	ug/kg	1500	570	30	09/24/08 13:56	09/30/08 02:08	11104-28-2	
PCB-1232 (Aroclor 1232)	**<570**	ug/kg	1500	570	30	09/24/08 13:56	09/30/08 02:08	11141-16-5	
PCB-1242 (Aroclor 1242)	**<570**	ug/kg	1500	570	30	09/24/08 13:56	09/30/08 02:08	53469-21-9	
PCB-1248 (Aroclor 1248)	**5720**	ug/kg	1500	570	30	09/24/08 13:56	09/30/08 02:08	12672-29-6	
PCB-1254 (Aroclor 1254)	**5140**	ug/kg	1500	570	30	09/24/08 13:56	09/30/08 02:08	11097-69-1	
PCB-1260 (Aroclor 1260)	**<570**	ug/kg	1500	570	30	09/24/08 13:56	09/30/08 02:08	11096-82-5	
PCB, Total	**10900**	ug/kg	1500	570	30	09/24/08 13:56	09/30/08 02:08	1336-36-3	
Tetrachloro-m-xylene (S)	0	%	40-136		30	09/24/08 13:56	09/30/08 02:08	877-09-8	S4
Decachlorobiphenyl (S)	0	%	47-145		30	09/24/08 13:56	09/30/08 02:08	2051-24-3	S4
Lipid	Analytical Method: Pace Lipid								
Lipid	**2.1**	%		0.10	1		09/26/08 09:20		

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ANALYTICAL RESULTS

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 408328

Sample: BL-LR-SB8-G, 8/25/08 **Lab ID: 408328011** Collected: 08/25/08 00:00 Received: 08/28/08 14:50 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCBs, Tissue	Analytical Method: EPA 8082 Preparation Method: EPA 3540								
PCB-1016 (Aroclor 1016)	**<380**	ug/kg	1000	380	20	09/24/08 13:56	09/30/08 02:36	12674-11-2	
PCB-1221 (Aroclor 1221)	**<380**	ug/kg	1000	380	20	09/24/08 13:56	09/30/08 02:36	11104-28-2	
PCB-1232 (Aroclor 1232)	**<380**	ug/kg	1000	380	20	09/24/08 13:56	09/30/08 02:36	11141-16-5	
PCB-1242 (Aroclor 1242)	**<380**	ug/kg	1000	380	20	09/24/08 13:56	09/30/08 02:36	53469-21-9	
PCB-1248 (Aroclor 1248)	**3510**	ug/kg	1000	380	20	09/24/08 13:56	09/30/08 02:36	12672-29-6	
PCB-1254 (Aroclor 1254)	**2790**	ug/kg	1000	380	20	09/24/08 13:56	09/30/08 02:36	11097-69-1	
PCB-1260 (Aroclor 1260)	**<380**	ug/kg	1000	380	20	09/24/08 13:56	09/30/08 02:36	11096-82-5	
PCB, Total	**6300**	ug/kg	1000	380	20	09/24/08 13:56	09/30/08 02:36	1336-36-3	
Tetrachloro-m-xylene (S)	0	%	40-136		20	09/24/08 13:56	09/30/08 02:36	877-09-8	S4
Decachlorobiphenyl (S)	0	%	47-145		20	09/24/08 13:56	09/30/08 02:36	2051-24-3	S4
Lipid	Analytical Method: Pace Lipid								
Lipid	**1.0**	%		0.10	1		09/26/08 09:21		

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ANALYTICAL RESULTS

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 408328

Sample: BL-LR-JWS1-G, 8/25/08 **Lab ID: 408328012** Collected: 08/25/08 00:00 Received: 08/28/08 14:50 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCBs, Tissue	Analytical Method: EPA 8082 Preparation Method: EPA 3540								
PCB-1016 (Aroclor 1016)	**<76.0**	ug/kg	200	76.0	2	09/24/08 13:56	09/30/08 03:04	12674-11-2	
PCB-1221 (Aroclor 1221)	**<76.0**	ug/kg	200	76.0	2	09/24/08 13:56	09/30/08 03:04	11104-28-2	
PCB-1232 (Aroclor 1232)	**<76.0**	ug/kg	200	76.0	2	09/24/08 13:56	09/30/08 03:04	11141-16-5	
PCB-1242 (Aroclor 1242)	**<76.0**	ug/kg	200	76.0	2	09/24/08 13:56	09/30/08 03:04	53469-21-9	
PCB-1248 (Aroclor 1248)	**706**	ug/kg	200	76.0	2	09/24/08 13:56	09/30/08 03:04	12672-29-6	
PCB-1254 (Aroclor 1254)	**563**	ug/kg	200	76.0	2	09/24/08 13:56	09/30/08 03:04	11097-69-1	
PCB-1260 (Aroclor 1260)	**<76.0**	ug/kg	200	76.0	2	09/24/08 13:56	09/30/08 03:04	11096-82-5	
PCB, Total	**1270**	ug/kg	200	76.0	2	09/24/08 13:56	09/30/08 03:04	1336-36-3	
Tetrachloro-m-xylene (S)	96	%	40-136		2	09/24/08 13:56	09/30/08 03:04	877-09-8	
Decachlorobiphenyl (S)	95	%	47-145		2	09/24/08 13:56	09/30/08 03:04	2051-24-3	
Lipid	Analytical Method: Pace Lipid								
Lipid	**0.14**	%		0.10	1		09/26/08 09:21		

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ANALYTICAL RESULTS

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 408328

Sample: BL-LR-AWS1-G, 8/25/08 **Lab ID: 408328013** Collected: 08/25/08 00:00 Received: 08/28/08 14:50 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCBs, Tissue	Analytical Method: EPA 8082 Preparation Method: EPA 3540								
PCB-1016 (Aroclor 1016)	**<190**	ug/kg	500	190	10	09/24/08 13:56	09/30/08 03:31	12674-11-2	
PCB-1221 (Aroclor 1221)	**<190**	ug/kg	500	190	10	09/24/08 13:56	09/30/08 03:31	11104-28-2	
PCB-1232 (Aroclor 1232)	**<190**	ug/kg	500	190	10	09/24/08 13:56	09/30/08 03:31	11141-16-5	
PCB-1242 (Aroclor 1242)	**<190**	ug/kg	500	190	10	09/24/08 13:56	09/30/08 03:31	53469-21-9	
PCB-1248 (Aroclor 1248)	**3080**	ug/kg	500	190	10	09/24/08 13:56	09/30/08 03:31	12672-29-6	
PCB-1254 (Aroclor 1254)	**1880**	ug/kg	500	190	10	09/24/08 13:56	09/30/08 03:31	11097-69-1	
PCB-1260 (Aroclor 1260)	**<190**	ug/kg	500	190	10	09/24/08 13:56	09/30/08 03:31	11096-82-5	
PCB, Total	**4960**	ug/kg	500	190	10	09/24/08 13:56	09/30/08 03:31	1336-36-3	
Tetrachloro-m-xylene (S)	98	%	40-136		10	09/24/08 13:56	09/30/08 03:31	877-09-8	
Decachlorobiphenyl (S)	111	%	47-145		10	09/24/08 13:56	09/30/08 03:31	2051-24-3	
Lipid	Analytical Method: Pace Lipid								
Lipid	**1.0**	%		0.10	1		09/26/08 09:21		

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ANALYTICAL RESULTS

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 408328

Sample: BL-LR-AWS2-G, 8/25/08 **Lab ID: 408328014** Collected: 08/25/08 00:00 Received: 08/28/08 14:50 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCBs, Tissue	Analytical Method: EPA 8082 Preparation Method: EPA 3540								
PCB-1016 (Aroclor 1016)	**<190**	ug/kg	500	190	10	09/24/08 13:56	09/30/08 04:00	12674-11-2	
PCB-1221 (Aroclor 1221)	**<190**	ug/kg	500	190	10	09/24/08 13:56	09/30/08 04:00	11104-28-2	
PCB-1232 (Aroclor 1232)	**<190**	ug/kg	500	190	10	09/24/08 13:56	09/30/08 04:00	11141-16-5	
PCB-1242 (Aroclor 1242)	**<190**	ug/kg	500	190	10	09/24/08 13:56	09/30/08 04:00	53469-21-9	
PCB-1248 (Aroclor 1248)	**2290**	ug/kg	500	190	10	09/24/08 13:56	09/30/08 04:00	12672-29-6	
PCB-1254 (Aroclor 1254)	**1360**	ug/kg	500	190	10	09/24/08 13:56	09/30/08 04:00	11097-69-1	
PCB-1260 (Aroclor 1260)	**<190**	ug/kg	500	190	10	09/24/08 13:56	09/30/08 04:00	11096-82-5	
PCB, Total	**3650**	ug/kg	500	190	10	09/24/08 13:56	09/30/08 04:00	1336-36-3	
Tetrachloro-m-xylene (S)	96	%	40-136		10	09/24/08 13:56	09/30/08 04:00	877-09-8	
Decachlorobiphenyl (S)	104	%	47-145		10	09/24/08 13:56	09/30/08 04:00	2051-24-3	
Lipid	Analytical Method: Pace Lipid								
Lipid	**0.70**	%		0.10	1		09/26/08 09:21		

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ANALYTICAL RESULTS

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 408328

Sample: BL-LR-AC1-G, 8/25/08 **Lab ID: 408328015** Collected: 08/25/08 00:00 Received: 08/28/08 14:50 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCBs, Tissue	Analytical Method: EPA 8082 Preparation Method: EPA 3540								
PCB-1016 (Aroclor 1016)	**<95.0**	ug/kg	250	95.0	5	09/24/08 13:56	09/30/08 04:27	12674-11-2	
PCB-1221 (Aroclor 1221)	**<95.0**	ug/kg	250	95.0	5	09/24/08 13:56	09/30/08 04:27	11104-28-2	
PCB-1232 (Aroclor 1232)	**<95.0**	ug/kg	250	95.0	5	09/24/08 13:56	09/30/08 04:27	11141-16-5	
PCB-1242 (Aroclor 1242)	**<95.0**	ug/kg	250	95.0	5	09/24/08 13:56	09/30/08 04:27	53469-21-9	
PCB-1248 (Aroclor 1248)	**1570**	ug/kg	250	95.0	5	09/24/08 13:56	09/30/08 04:27	12672-29-6	
PCB-1254 (Aroclor 1254)	**837**	ug/kg	250	95.0	5	09/24/08 13:56	09/30/08 04:27	11097-69-1	
PCB-1260 (Aroclor 1260)	**111J**	ug/kg	250	95.0	5	09/24/08 13:56	09/30/08 04:27	11096-82-5	
PCB, Total	**2520**	ug/kg	250	95.0	5	09/24/08 13:56	09/30/08 04:27	1336-36-3	
Tetrachloro-m-xylene (S)	93	%	40-136		5	09/24/08 13:56	09/30/08 04:27	877-09-8	
Decachlorobiphenyl (S)	102	%	47-145		5	09/24/08 13:56	09/30/08 04:27	2051-24-3	
Lipid	Analytical Method: Pace Lipid								
Lipid	**2.5**	%		0.10	1		09/26/08 09:22		

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ANALYTICAL RESULTS

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 408328

Sample: BL-LR-AC2-G, 8/25/08 **Lab ID: 408328016** Collected: 08/25/08 00:00 Received: 08/28/08 14:50 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCBs, Tissue	Analytical Method: EPA 8082 Preparation Method: EPA 3540								
PCB-1016 (Aroclor 1016)	**<950**	ug/kg	2500	950	50	09/24/08 13:56	09/30/08 04:55	12674-11-2	
PCB-1221 (Aroclor 1221)	**<950**	ug/kg	2500	950	50	09/24/08 13:56	09/30/08 04:55	11104-28-2	
PCB-1232 (Aroclor 1232)	**<950**	ug/kg	2500	950	50	09/24/08 13:56	09/30/08 04:55	11141-16-5	
PCB-1242 (Aroclor 1242)	**<950**	ug/kg	2500	950	50	09/24/08 13:56	09/30/08 04:55	53469-21-9	
PCB-1248 (Aroclor 1248)	**6920**	ug/kg	2500	950	50	09/24/08 13:56	09/30/08 04:55	12672-29-6	
PCB-1254 (Aroclor 1254)	**7760**	ug/kg	2500	950	50	09/24/08 13:56	09/30/08 04:55	11097-69-1	
PCB-1260 (Aroclor 1260)	**1070J**	ug/kg	2500	950	50	09/24/08 13:56	09/30/08 04:55	11096-82-5	
PCB, Total	**15700**	ug/kg	2500	950	50	09/24/08 13:56	09/30/08 04:55	1336-36-3	
Tetrachloro-m-xylene (S)	0	%	40-136		50	09/24/08 13:56	09/30/08 04:55	877-09-8	S4
Decachlorobiphenyl (S)	0	%	47-145		50	09/24/08 13:56	09/30/08 04:55	2051-24-3	S4
Lipid	Analytical Method: Pace Lipid								
Lipid	**2.7**	%		0.10	1		09/26/08 09:22		

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ANALYTICAL RESULTS

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 408328

Sample: BL-LR-CC1-G, 8/25/08 **Lab ID: 408328017** Collected: 08/25/08 00:00 Received: 08/28/08 14:50 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCBs, Tissue	Analytical Method: EPA 8082 Preparation Method: EPA 3540								
PCB-1016 (Aroclor 1016)	**<380**	ug/kg	1000	380	20	09/24/08 13:56	09/30/08 05:23	12674-11-2	
PCB-1221 (Aroclor 1221)	**<380**	ug/kg	1000	380	20	09/24/08 13:56	09/30/08 05:23	11104-28-2	
PCB-1232 (Aroclor 1232)	**<380**	ug/kg	1000	380	20	09/24/08 13:56	09/30/08 05:23	11141-16-5	
PCB-1242 (Aroclor 1242)	**<380**	ug/kg	1000	380	20	09/24/08 13:56	09/30/08 05:23	53469-21-9	
PCB-1248 (Aroclor 1248)	**5370**	ug/kg	1000	380	20	09/24/08 13:56	09/30/08 05:23	12672-29-6	
PCB-1254 (Aroclor 1254)	**3120**	ug/kg	1000	380	20	09/24/08 13:56	09/30/08 05:23	11097-69-1	
PCB-1260 (Aroclor 1260)	**<380**	ug/kg	1000	380	20	09/24/08 13:56	09/30/08 05:23	11096-82-5	
PCB, Total	**8490**	ug/kg	1000	380	20	09/24/08 13:56	09/30/08 05:23	1336-36-3	
Tetrachloro-m-xylene (S)	0	%	40-136		20	09/24/08 13:56	09/30/08 05:23	877-09-8	S4
Decachlorobiphenyl (S)	0	%	47-145		20	09/24/08 13:56	09/30/08 05:23	2051-24-3	S4
Lipid	Analytical Method: Pace Lipid								
Lipid	**4.1**	%		0.10	1		09/26/08 09:22		

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ANALYTICAL RESULTS

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 408328

Sample: BL-LR-CC2-G, 8/25/08 **Lab ID: 408328018** Collected: 08/25/08 00:00 Received: 08/28/08 14:50 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCBs, Tissue	Analytical Method: EPA 8082 Preparation Method: EPA 3540								
PCB-1016 (Aroclor 1016)	**<570**	ug/kg	1500	570	30	09/24/08 13:56	09/30/08 05:51	12674-11-2	
PCB-1221 (Aroclor 1221)	**<570**	ug/kg	1500	570	30	09/24/08 13:56	09/30/08 05:51	11104-28-2	
PCB-1232 (Aroclor 1232)	**<570**	ug/kg	1500	570	30	09/24/08 13:56	09/30/08 05:51	11141-16-5	
PCB-1242 (Aroclor 1242)	**<570**	ug/kg	1500	570	30	09/24/08 13:56	09/30/08 05:51	53469-21-9	
PCB-1248 (Aroclor 1248)	**6520**	ug/kg	1500	570	30	09/24/08 13:56	09/30/08 05:51	12672-29-6	
PCB-1254 (Aroclor 1254)	**5140**	ug/kg	1500	570	30	09/24/08 13:56	09/30/08 05:51	11097-69-1	
PCB-1260 (Aroclor 1260)	**<570**	ug/kg	1500	570	30	09/24/08 13:56	09/30/08 05:51	11096-82-5	
PCB, Total	**11700**	ug/kg	1500	570	30	09/24/08 13:56	09/30/08 05:51	1336-36-3	
Tetrachloro-m-xylene (S)	0	%	40-136		30	09/24/08 13:56	09/30/08 05:51	877-09-8	S4
Decachlorobiphenyl (S)	0	%	47-145		30	09/24/08 13:56	09/30/08 05:51	2051-24-3	S4
Lipid	Analytical Method: Pace Lipid								
Lipid	**4.3**	%		0.10	1		09/26/08 09:22		

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ANALYTICAL RESULTS

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 408328

Sample: BL-LR-CC3-G, 8/25/08 **Lab ID: 408328019** Collected: 08/25/08 00:00 Received: 08/28/08 14:50 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCBs, Tissue	Analytical Method: EPA 8082 Preparation Method: EPA 3540								
PCB-1016 (Aroclor 1016)	**<380**	ug/kg	1000	380	20	09/24/08 13:56	09/30/08 06:19	12674-11-2	
PCB-1221 (Aroclor 1221)	**<380**	ug/kg	1000	380	20	09/24/08 13:56	09/30/08 06:19	11104-28-2	
PCB-1232 (Aroclor 1232)	**<380**	ug/kg	1000	380	20	09/24/08 13:56	09/30/08 06:19	11141-16-5	
PCB-1242 (Aroclor 1242)	**<380**	ug/kg	1000	380	20	09/24/08 13:56	09/30/08 06:19	53469-21-9	
PCB-1248 (Aroclor 1248)	**3860**	ug/kg	1000	380	20	09/24/08 13:56	09/30/08 06:19	12672-29-6	
PCB-1254 (Aroclor 1254)	**2500**	ug/kg	1000	380	20	09/24/08 13:56	09/30/08 06:19	11097-69-1	
PCB-1260 (Aroclor 1260)	**<380**	ug/kg	1000	380	20	09/24/08 13:56	09/30/08 06:19	11096-82-5	
PCB, Total	**6370**	ug/kg	1000	380	20	09/24/08 13:56	09/30/08 06:19	1336-36-3	
Tetrachloro-m-xylene (S)	0	%	40-136		20	09/24/08 13:56	09/30/08 06:19	877-09-8	S4
Decachlorobiphenyl (S)	0	%	47-145		20	09/24/08 13:56	09/30/08 06:19	2051-24-3	S4
Lipid	Analytical Method: Pace Lipid								
Lipid	**5.0**	%		0.10	1		09/26/08 09:22		

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ANALYTICAL RESULTS

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 408328

Sample: BL-LR-CC4-G, 8/25/08 **Lab ID: 408328020** Collected: 08/25/08 00:00 Received: 08/28/08 14:50 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCBs, Tissue	Analytical Method: EPA 8082 Preparation Method: EPA 3540								
PCB-1016 (Aroclor 1016)	**<1900**	ug/kg	5000	1900	100	09/24/08 13:56	09/30/08 06:47	12674-11-2	
PCB-1221 (Aroclor 1221)	**<1900**	ug/kg	5000	1900	100	09/24/08 13:56	09/30/08 06:47	11104-28-2	
PCB-1232 (Aroclor 1232)	**<1900**	ug/kg	5000	1900	100	09/24/08 13:56	09/30/08 06:47	11141-16-5	
PCB-1242 (Aroclor 1242)	**<1900**	ug/kg	5000	1900	100	09/24/08 13:56	09/30/08 06:47	53469-21-9	
PCB-1248 (Aroclor 1248)	**16100**	ug/kg	5000	1900	100	09/24/08 13:56	09/30/08 06:47	12672-29-6	
PCB-1254 (Aroclor 1254)	**12300**	ug/kg	5000	1900	100	09/24/08 13:56	09/30/08 06:47	11097-69-1	
PCB-1260 (Aroclor 1260)	**<1900**	ug/kg	5000	1900	100	09/24/08 13:56	09/30/08 06:47	11096-82-5	
PCB, Total	**28400**	ug/kg	5000	1900	100	09/24/08 13:56	09/30/08 06:47	1336-36-3	
Tetrachloro-m-xylene (S)	0	%	40-136		100	09/24/08 13:56	09/30/08 06:47	877-09-8	S4
Decachlorobiphenyl (S)	0	%	47-145		100	09/24/08 13:56	09/30/08 06:47	2051-24-3	S4
Lipid	Analytical Method: Pace Lipid								
Lipid	**7.8**	%		0.10	1		09/26/08 09:23		

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QUALITY CONTROL DATA

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 408328

QC Batch: OEXT/2765 Analysis Method: EPA 8082
QC Batch Method: EPA 3540 Analysis Description: 8082 GCS Tissue Pesticides
Associated Lab Samples: 408328001, 408328002, 408328003, 408328004, 408328005, 408328006, 408328007, 408328008, 408328009, 408328010, 408328011, 408328012, 408328013, 408328014, 408328015, 408328016, 408328017, 408328018, 408328019, 408328020

METHOD BLANK: 80354 Matrix: Tissue
Associated Lab Samples: 408328001, 408328002, 408328003, 408328004, 408328005, 408328006, 408328007, 408328008, 408328009, 408328010, 408328011, 408328012, 408328013, 408328014, 408328015, 408328016, 408328017, 408328018, 408328019, 408328020

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg	<19.0	50.0	09/29/08 19:07	
PCB-1221 (Aroclor 1221)	ug/kg	<19.0	50.0	09/29/08 19:07	
PCB-1232 (Aroclor 1232)	ug/kg	<19.0	50.0	09/29/08 19:07	
PCB-1242 (Aroclor 1242)	ug/kg	<19.0	50.0	09/29/08 19:07	
PCB-1248 (Aroclor 1248)	ug/kg	<19.0	50.0	09/29/08 19:07	
PCB-1254 (Aroclor 1254)	ug/kg	<19.0	50.0	09/29/08 19:07	
PCB-1260 (Aroclor 1260)	ug/kg	<19.0	50.0	09/29/08 19:07	
Decachlorobiphenyl (S)	%	99	47-145	09/29/08 19:07	
Tetrachloro-m-xylene (S)	%	97	40-136	09/29/08 19:07	

LABORATORY CONTROL SAMPLE: 80355

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg		<19.0			
PCB-1221 (Aroclor 1221)	ug/kg		<19.0			
PCB-1232 (Aroclor 1232)	ug/kg		<19.0			
PCB-1242 (Aroclor 1242)	ug/kg	250	275	110	40-128	
PCB-1248 (Aroclor 1248)	ug/kg		<19.0			
PCB-1254 (Aroclor 1254)	ug/kg		<19.0			
PCB-1260 (Aroclor 1260)	ug/kg		<19.0			
Decachlorobiphenyl (S)	%			101	47-145	
Tetrachloro-m-xylene (S)	%			99	40-136	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 80356 80357

Parameter	Units	408328006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
PCB-1016 (Aroclor 1016)	ug/kg	<190			<380	<380					56	
PCB-1221 (Aroclor 1221)	ug/kg	<190			<380	<380					56	
PCB-1232 (Aroclor 1232)	ug/kg	<190			<380	<380					56	
PCB-1242 (Aroclor 1242)	ug/kg	<190	1000	1000	<380	<380	0	0	43-130		56	M0
PCB-1248 (Aroclor 1248)	ug/kg	1140			4400	2740				47	56	
PCB-1254 (Aroclor 1254)	ug/kg	888			2550	1580				47	56	
PCB-1260 (Aroclor 1260)	ug/kg	<190			<380	<380					56	
Decachlorobiphenyl (S)	%						0	0	47-145			S4
Tetrachloro-m-xylene (S)	%						0	0	40-136			S4

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 408328

QC Batch: OEXT/2779 Analysis Method: Pace Lipid
QC Batch Method: Pace Lipid Analysis Description: LIPID
Associated Lab Samples: 408328001, 408328002, 408328003, 408328004, 408328005, 408328006, 408328007, 408328008, 408328009, 408328010, 408328011, 408328012, 408328013, 408328014, 408328015, 408328016, 408328017, 408328018, 408328019, 408328020

METHOD BLANK: 80965 Matrix: Tissue
Associated Lab Samples: 408328001, 408328002, 408328003, 408328004, 408328005, 408328006, 408328007, 408328008, 408328009, 408328010, 408328011, 408328012, 408328013, 408328014, 408328015, 408328016, 408328017, 408328018, 408328019, 408328020

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lipid	%	<0.10		09/26/08 09:18	

SAMPLE DUPLICATE: 80966

Parameter	Units	408328006 Result	Dup Result	RPD	Max RPD	Qualifiers
Lipid	%	0.65	0.65	0	20	

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QUALIFIERS

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 408328

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

Pace Analytical is NELAP accredited. Contact your Pace PM for the current list of accredited analytes.

ANALYTE QUALIFIERS

M0	Matrix spike recovery was outside laboratory control limits.
S4	Surrogate recovery not evaluated against control limits due to sample dilution.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 408328

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
408328001	**BL-UR2-RB5-G, 8/22/08**	EPA 3540	OEXT/2765	EPA 8082	GCSV/1943
408328002	**BL-UR2-RB6-G, 8/22/08**	EPA 3540	OEXT/2765	EPA 8082	GCSV/1943
408328003	**BL-UR2-RB7-G, 8/22/08**	EPA 3540	OEXT/2765	EPA 8082	GCSV/1943
408328004	**BL-LR-SB1-G, 8/25/08**	EPA 3540	OEXT/2765	EPA 8082	GCSV/1943
408328005	**BL-LR-SB2-G, 8/25/08**	EPA 3540	OEXT/2765	EPA 8082	GCSV/1943
408328006	**BL-LR-SB3-G, 8/25/08**	EPA 3540	OEXT/2765	EPA 8082	GCSV/1943
408328007	**BL-LR-SB4-G, 8/25/08**	EPA 3540	OEXT/2765	EPA 8082	GCSV/1943
408328008	**BL-LR-SB5-G, 8/25/08**	EPA 3540	OEXT/2765	EPA 8082	GCSV/1943
408328009	**BL-LR-SB6-G, 8/25/08**	EPA 3540	OEXT/2765	EPA 8082	GCSV/1943
408328010	**BL-LR-SB7-G, 8/25/08**	EPA 3540	OEXT/2765	EPA 8082	GCSV/1943
408328011	**BL-LR-SB8-G, 8/25/08**	EPA 3540	OEXT/2765	EPA 8082	GCSV/1943
408328012	**BL-LR-JWS1-G, 8/25/08**	EPA 3540	OEXT/2765	EPA 8082	GCSV/1943
408328013	**BL-LR-AWS1-G, 8/25/08**	EPA 3540	OEXT/2765	EPA 8082	GCSV/1943
408328014	**BL-LR-AWS2-G, 8/25/08**	EPA 3540	OEXT/2765	EPA 8082	GCSV/1943
408328015	**BL-LR-AC1-G, 8/25/08**	EPA 3540	OEXT/2765	EPA 8082	GCSV/1943
408328016	**BL-LR-AC2-G, 8/25/08**	EPA 3540	OEXT/2765	EPA 8082	GCSV/1943
408328017	**BL-LR-CC1-G, 8/25/08**	EPA 3540	OEXT/2765	EPA 8082	GCSV/1943
408328018	**BL-LR-CC2-G, 8/25/08**	EPA 3540	OEXT/2765	EPA 8082	GCSV/1943
408328019	**BL-LR-CC3-G, 8/25/08**	EPA 3540	OEXT/2765	EPA 8082	GCSV/1943
408328020	**BL-LR-CC4-G, 8/25/08**	EPA 3540	OEXT/2765	EPA 8082	GCSV/1943
408328001	**BL-UR2-RB5-G, 8/22/08**	Pace Lipid	OEXT/2779		
408328002	**BL-UR2-RB6-G, 8/22/08**	Pace Lipid	OEXT/2779		
408328003	**BL-UR2-RB7-G, 8/22/08**	Pace Lipid	OEXT/2779		
408328004	**BL-LR-SB1-G, 8/25/08**	Pace Lipid	OEXT/2779		
408328005	**BL-LR-SB2-G, 8/25/08**	Pace Lipid	OEXT/2779		
408328006	**BL-LR-SB3-G, 8/25/08**	Pace Lipid	OEXT/2779		
408328007	**BL-LR-SB4-G, 8/25/08**	Pace Lipid	OEXT/2779		
408328008	**BL-LR-SB5-G, 8/25/08**	Pace Lipid	OEXT/2779		
408328009	**BL-LR-SB6-G, 8/25/08**	Pace Lipid	OEXT/2779		
408328010	**BL-LR-SB7-G, 8/25/08**	Pace Lipid	OEXT/2779		
408328011	**BL-LR-SB8-G, 8/25/08**	Pace Lipid	OEXT/2779		
408328012	**BL-LR-JWS1-G, 8/25/08**	Pace Lipid	OEXT/2779		
408328013	**BL-LR-AWS1-G, 8/25/08**	Pace Lipid	OEXT/2779		
408328014	**BL-LR-AWS2-G, 8/25/08**	Pace Lipid	OEXT/2779		
408328015	**BL-LR-AC1-G, 8/25/08**	Pace Lipid	OEXT/2779		
408328016	**BL-LR-AC2-G, 8/25/08**	Pace Lipid	OEXT/2779		
408328017	**BL-LR-CC1-G, 8/25/08**	Pace Lipid	OEXT/2779		
408328018	**BL-LR-CC2-G, 8/25/08**	Pace Lipid	OEXT/2779		
408328019	**BL-LR-CC3-G, 8/25/08**	Pace Lipid	OEXT/2779		
408328020	**BL-LR-CC4-G, 8/25/08**	Pace Lipid	OEXT/2779		

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October 15, 2008

BRANDY PROFFITT
POLLUTION RISK SERVICES
7870 EAST KEMPER ROAD
SUITE 240
Cincinnati, OH 45249

RE: Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 408721

Dear BRANDY PROFFITT:
Enclosed are the analytical results for sample(s) received by the laboratory on September 09, 2008. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Tod Noltemeyer

Tod Noltemeyer

tod.noltemeyer@pacelabs.com
Project Manager

Enclosures

REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 408721

Green Bay Certification IDs

Louisiana Certification #: 04169
Louisiana Certification #: 04168
Kentucky Certification #: 83
Kentucky Certification #: 82
Wisconsin DATCP Certification #: 105-444
Wisconsin DATCP Certification #: 105-444
Wisconsin Certification #: 405132750
Wisconsin Certification #: 405132750
South Carolina Certification #: 83006001
South Carolina Certification #: 83006001
Minnesota Certification #: 055-999-334
Minnesota Certification #: 055-999-334
North Carolina Certification #: 503
North Carolina Certification #: 503
North Dakota Certification #: R-200
North Dakota Certification #: R-150
New York Certification #: 11888
New York Certification #: 11887
Illinois Certification #: 200051
Illinois Certification #: 200050
Florida (NELAP) Certification #: E87951
Florida (NELAP) Certification #: E87948

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SAMPLE SUMMARY

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 408721

Lab ID	Sample ID	Matrix	Date Collected	Date Received
408721001	BL-UR2-AC7-G, 9/6/08	Tissue	09/06/08 00:00	09/09/08 13:30
408721002	BL-UR2-AC8-G, 9/6/08	Tissue	09/06/08 00:00	09/09/08 13:30
408721003	BL-UR2-AC9-G, 9/6/08	Tissue	09/06/08 00:00	09/09/08 13:30
408721004	BL-UR2-AC10-G, 9/6/08	Tissue	09/06/08 00:00	09/09/08 13:30
408721005	BL-UR2-AC11-G, 9/6/08	Tissue	09/06/08 00:00	09/09/08 13:30
408721006	BL-UR2-AC12-G, 9/6/08	Tissue	09/06/08 00:00	09/09/08 13:30
408721007	BL-UR2-AC13-G, 9/6/08	Tissue	09/06/08 00:00	09/09/08 13:30
408721008	BL-UR2-AC14-G, 9/6/08	Tissue	09/06/08 00:00	09/09/08 13:30
408721009	BL-UR2-AC15-G, 9/6/08	Tissue	09/06/08 00:00	09/09/08 13:30
408721010	BL-UR2-AC16-G, 9/6/08	Tissue	09/06/08 00:00	09/09/08 13:30
408721011	BL-UR2-AWS5-G, 9/6/08	Tissue	09/06/08 00:00	09/09/08 13:30
408721012	BL-UR2-AWS6-G, 9/6/08	Tissue	09/06/08 00:00	09/09/08 13:30
408721013	BL-UR2-AWS7-G, 9/6/08	Tissue	09/06/08 00:00	09/09/08 13:30
408721014	BL-UR2-AWS8-G, 9/6/08	Tissue	09/06/08 00:00	09/09/08 13:30
408721015	BL-UR2-RB8-G, 9/6/08	Tissue	09/06/08 00:00	09/09/08 13:30
408721016	BL-MR2-SB1-G, 9/8/08	Tissue	09/08/08 00:00	09/09/08 13:30
408721017	BL-MR2-SB2-G, 9/8/08	Tissue	09/08/08 00:00	09/09/08 13:30
408721018	BL-MR2-SB3-G, 9/8/08	Tissue	09/08/08 00:00	09/09/08 13:30
408721019	BL-MR2-SB4-G, 9/8/08	Tissue	09/08/08 00:00	09/09/08 13:30
408721020	BL-MR2-SB5-G, 9/8/08	Tissue	09/08/08 00:00	09/09/08 13:30

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SAMPLE ANALYTE COUNT

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 408721

Lab ID	Sample ID	Method	Analysts	Analytes Reported
408721001	BL-UR2-AC7-G, 9/6/08	EPA 8082	CAH	10
		Pace Lipid	DAL	1
408721002	BL-UR2-AC8-G, 9/6/08	EPA 8082	CAH	10
		Pace Lipid	DAL	1
408721003	BL-UR2-AC9-G, 9/6/08	EPA 8082	CAH	10
		Pace Lipid	DAL	1
408721004	BL-UR2-AC10-G, 9/6/08	EPA 8082	CAH	10
		Pace Lipid	DAL	1
408721005	BL-UR2-AC11-G, 9/6/08	EPA 8082	CAH	10
		Pace Lipid	DAL	1
408721006	BL-UR2-AC12-G, 9/6/08	EPA 8082	CAH	10
		Pace Lipid	DAL	1
408721007	BL-UR2-AC13-G, 9/6/08	EPA 8082	CAH	10
		Pace Lipid	DAL	1
408721008	BL-UR2-AC14-G, 9/6/08	EPA 8082	CAH	10
		Pace Lipid	DAL	1
408721009	BL-UR2-AC15-G, 9/6/08	EPA 8082	CAH	10
		Pace Lipid	DAL	1
408721010	BL-UR2-AC16-G, 9/6/08	EPA 8082	CAH	10
		Pace Lipid	DAL	1
408721011	BL-UR2-AWS5-G, 9/6/08	EPA 8082	CAH	10
		Pace Lipid	DAL	1
408721012	BL-UR2-AWS6-G, 9/6/08	EPA 8082	CAH	10
		Pace Lipid	DAL	1
408721013	BL-UR2-AWS7-G, 9/6/08	EPA 8082	CAH	10
		Pace Lipid	DAL	1
408721014	BL-UR2-AWS8-G, 9/6/08	EPA 8082	CAH	10
		Pace Lipid	DAL	1
408721015	BL-UR2-RB8-G, 9/6/08	EPA 8082	CAH	10
		Pace Lipid	DAL	1
408721016	BL-MR2-SB1-G, 9/8/08	EPA 8082	CAH	10
		Pace Lipid	DAL	1
408721017	BL-MR2-SB2-G, 9/8/08	EPA 8082	CAH	10
		Pace Lipid	DAL	1
408721018	BL-MR2-SB3-G, 9/8/08	EPA 8082	CAH	10
		Pace Lipid	DAL	1
408721019	BL-MR2-SB4-G, 9/8/08	EPA 8082	CAH	10

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SAMPLE ANALYTE COUNT

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 408721

Lab ID	Sample ID	Method	Analysts	Analytes Reported
		Pace Lipid	DAL	1
408721020	**BL-MR2-SB5-G, 9/8/08**	EPA 8082	CAH	10
		Pace Lipid	DAL	1

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PROJECT NARRATIVE

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 408721

Method: **EPA 8082**
Description: 8082 GCS PCBs, Tissue
Client: POLLUTION RISK SERVICES
Date: October 15, 2008

General Information:
20 samples were analyzed for EPA 8082. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 3540 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

QC Batch: OEXT/2795

S4: Surrogate recovery not evaluated against control limits due to sample dilution.

- BL-MR2-SB2-G, 9/8/08 (Lab ID: 408721017)
  - Decachlorobiphenyl (S)
  - Tetrachloro-m-xylene (S)
- BL-MR2-SB3-G, 9/8/08 (Lab ID: 408721018)
  - Decachlorobiphenyl (S)
  - Tetrachloro-m-xylene (S)
- BL-MR2-SB5-G, 9/8/08 (Lab ID: 408721020)
  - Decachlorobiphenyl (S)
  - Tetrachloro-m-xylene (S)
- BL-UR2-AC11-G, 9/6/08 (Lab ID: 408721005)
  - Decachlorobiphenyl (S)
  - Tetrachloro-m-xylene (S)
- BL-UR2-AC12-G, 9/6/08 (Lab ID: 408721006)
  - Decachlorobiphenyl (S)
  - Tetrachloro-m-xylene (S)
- BL-UR2-AC14-G, 9/6/08 (Lab ID: 408721008)
  - Decachlorobiphenyl (S)
  - Tetrachloro-m-xylene (S)
- BL-UR2-AC16-G, 9/6/08 (Lab ID: 408721010)
  - Decachlorobiphenyl (S)
  - Tetrachloro-m-xylene (S)
- BL-UR2-AC7-G, 9/6/08 (Lab ID: 408721001)
  - Decachlorobiphenyl (S)
  - Tetrachloro-m-xylene (S)
- BL-UR2-AC8-G, 9/6/08 (Lab ID: 408721002)

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PROJECT NARRATIVE

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 408721

Method: **EPA 8082**
Description: 8082 GCS PCBs, Tissue
Client: POLLUTION RISK SERVICES
Date: October 15, 2008

QC Batch: OEXT/2795

S4: Surrogate recovery not evaluated against control limits due to sample dilution.

- Decachlorobiphenyl (S)
- Tetrachloro-m-xylene (S)

- BL-UR2-AC9-G, 9/6/08 (Lab ID: 408721003)
  - Decachlorobiphenyl (S)
  - Tetrachloro-m-xylene (S)
- BL-UR2-AWS5-G, 9/6/08 (Lab ID: 408721011)
  - Decachlorobiphenyl (S)
  - Tetrachloro-m-xylene (S)
- BL-UR2-AWS6-G, 9/6/08 (Lab ID: 408721012)
  - Decachlorobiphenyl (S)
  - Tetrachloro-m-xylene (S)
- BL-UR2-AWS7-G, 9/6/08 (Lab ID: 408721013)
  - Decachlorobiphenyl (S)
  - Tetrachloro-m-xylene (S)
- BL-UR2-AWS8-G, 9/6/08 (Lab ID: 408721014)
  - Decachlorobiphenyl (S)
  - Tetrachloro-m-xylene (S)
- MS (Lab ID: 82235)
  - Decachlorobiphenyl (S)
  - Tetrachloro-m-xylene (S)
- MSD (Lab ID: 82236)
  - Decachlorobiphenyl (S)
  - Tetrachloro-m-xylene (S)

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: OEXT/2795

A matrix spike and matrix spike duplicate (MS/MSD) were performed on the following sample(s): 408721001

M6: Matrix spike and Matrix spike duplicate recovery not evaluated against control limits due to sample dilution.

- MS (Lab ID: 82235)
  - PCB-1254 (Aroclor 1254)
- MSD (Lab ID: 82236)
  - PCB-1254 (Aroclor 1254)

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

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PROJECT NARRATIVE

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 408721

Method: **EPA 8082**
Description: 8082 GCS PCBs, Tissue
Client: POLLUTION RISK SERVICES
Date: October 15, 2008

Additional Comments:

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PROJECT NARRATIVE

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 408721

Method: **Pace Lipid**
Description: Lipid
Client: POLLUTION RISK SERVICES
Date: October 15, 2008

General Information:
20 samples were analyzed for Pace Lipid. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

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ANALYTICAL RESULTS

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 408721

Sample: BL-UR2-AC7-G, 9/6/08 **Lab ID: 408721001** Collected: 09/06/08 00:00 Received: 09/09/08 13:30 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCBs, Tissue	Analytical Method: EPA 8082 Preparation Method: EPA 3540								
PCB-1016 (Aroclor 1016)	**<950**	ug/kg	2500	950	50	09/29/08 10:06	10/06/08 18:38	12674-11-2	
PCB-1221 (Aroclor 1221)	**<950**	ug/kg	2500	950	50	09/29/08 10:06	10/06/08 18:38	11104-28-2	
PCB-1232 (Aroclor 1232)	**<950**	ug/kg	2500	950	50	09/29/08 10:06	10/06/08 18:38	11141-16-5	
PCB-1242 (Aroclor 1242)	**<950**	ug/kg	2500	950	50	09/29/08 10:06	10/06/08 18:38	53469-21-9	
PCB-1248 (Aroclor 1248)	**5350**	ug/kg	2500	950	50	09/29/08 10:06	10/06/08 18:38	12672-29-6	
PCB-1254 (Aroclor 1254)	**3880**	ug/kg	2500	950	50	09/29/08 10:06	10/06/08 18:38	11097-69-1	M6
PCB-1260 (Aroclor 1260)	**<950**	ug/kg	2500	950	50	09/29/08 10:06	10/06/08 18:38	11096-82-5	
PCB, Total	**9230**	ug/kg	2500	950	50	09/29/08 10:06	10/06/08 18:38	1336-36-3	
Tetrachloro-m-xylene (S)	0	%	40-136		50	09/29/08 10:06	10/06/08 18:38	877-09-8	S4
Decachlorobiphenyl (S)	0	%	47-145		50	09/29/08 10:06	10/06/08 18:38	2051-24-3	S4
Lipid	Analytical Method: Pace Lipid								
Lipid	**0.98**	%		0.10	1		10/06/08 08:11		

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ANALYTICAL RESULTS

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 408721

Sample: BL-UR2-AC8-G, 9/6/08 **Lab ID: 408721002** Collected: 09/06/08 00:00 Received: 09/09/08 13:30 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCBs, Tissue	Analytical Method: EPA 8082 Preparation Method: EPA 3540								
PCB-1016 (Aroclor 1016)	**<1900**	ug/kg	5000	1900	100	09/29/08 10:08	10/06/08 19:04	12674-11-2	
PCB-1221 (Aroclor 1221)	**<1900**	ug/kg	5000	1900	100	09/29/08 10:08	10/06/08 19:04	11104-28-2	
PCB-1232 (Aroclor 1232)	**<1900**	ug/kg	5000	1900	100	09/29/08 10:08	10/06/08 19:04	11141-16-5	
PCB-1242 (Aroclor 1242)	**<1900**	ug/kg	5000	1900	100	09/29/08 10:08	10/06/08 19:04	53469-21-9	
PCB-1248 (Aroclor 1248)	**13100**	ug/kg	5000	1900	100	09/29/08 10:08	10/06/08 19:04	12672-29-6	
PCB-1254 (Aroclor 1254)	**9530**	ug/kg	5000	1900	100	09/29/08 10:08	10/06/08 19:04	11097-69-1	
PCB-1260 (Aroclor 1260)	**<1900**	ug/kg	5000	1900	100	09/29/08 10:08	10/06/08 19:04	11096-82-5	
PCB, Total	**22700**	ug/kg	5000	1900	100	09/29/08 10:08	10/06/08 19:04	1336-36-3	
Tetrachloro-m-xylene (S)	0	%	40-136		100	09/29/08 10:08	10/06/08 19:04	877-09-8	S4
Decachlorobiphenyl (S)	0	%	47-145		100	09/29/08 10:08	10/06/08 19:04	2051-24-3	S4
Lipid	Analytical Method: Pace Lipid								
Lipid	**3.2**	%		0.10	1		10/06/08 08:12		

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ANALYTICAL RESULTS

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 408721

Sample: BL-UR2-AC9-G, 9/6/08 **Lab ID: 408721003** Collected: 09/06/08 00:00 Received: 09/09/08 13:30 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCBs, Tissue	Analytical Method: EPA 8082 Preparation Method: EPA 3540								
PCB-1016 (Aroclor 1016)	**<380**	ug/kg	1000	380	20	09/29/08 10:08	10/06/08 19:30	12674-11-2	
PCB-1221 (Aroclor 1221)	**<380**	ug/kg	1000	380	20	09/29/08 10:08	10/06/08 19:30	11104-28-2	
PCB-1232 (Aroclor 1232)	**<380**	ug/kg	1000	380	20	09/29/08 10:08	10/06/08 19:30	11141-16-5	
PCB-1242 (Aroclor 1242)	**<380**	ug/kg	1000	380	20	09/29/08 10:08	10/06/08 19:30	53469-21-9	
PCB-1248 (Aroclor 1248)	**2470**	ug/kg	1000	380	20	09/29/08 10:08	10/06/08 19:30	12672-29-6	
PCB-1254 (Aroclor 1254)	**1080**	ug/kg	1000	380	20	09/29/08 10:08	10/06/08 19:30	11097-69-1	
PCB-1260 (Aroclor 1260)	**<380**	ug/kg	1000	380	20	09/29/08 10:08	10/06/08 19:30	11096-82-5	
PCB, Total	**3550**	ug/kg	1000	380	20	09/29/08 10:08	10/06/08 19:30	1336-36-3	
Tetrachloro-m-xylene (S)	0	%	40-136		20	09/29/08 10:08	10/06/08 19:30	877-09-8	S4
Decachlorobiphenyl (S)	0	%	47-145		20	09/29/08 10:08	10/06/08 19:30	2051-24-3	S4
Lipid	Analytical Method: Pace Lipid								
Lipid	**0.96**	%		0.10	1		10/06/08 08:12		

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ANALYTICAL RESULTS

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 408721

Sample: BL-UR2-AC10-G, 9/6/08 **Lab ID: 408721004** Collected: 09/06/08 00:00 Received: 09/09/08 13:30 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCBs, Tissue	Analytical Method: EPA 8082 Preparation Method: EPA 3540								
PCB-1016 (Aroclor 1016)	**<95.0**	ug/kg	250	95.0	5	09/29/08 10:08	10/06/08 19:56	12674-11-2	
PCB-1221 (Aroclor 1221)	**<95.0**	ug/kg	250	95.0	5	09/29/08 10:08	10/06/08 19:56	11104-28-2	
PCB-1232 (Aroclor 1232)	**<95.0**	ug/kg	250	95.0	5	09/29/08 10:08	10/06/08 19:56	11141-16-5	
PCB-1242 (Aroclor 1242)	**<95.0**	ug/kg	250	95.0	5	09/29/08 10:08	10/06/08 19:56	53469-21-9	
PCB-1248 (Aroclor 1248)	**710**	ug/kg	250	95.0	5	09/29/08 10:08	10/06/08 19:56	12672-29-6	
PCB-1254 (Aroclor 1254)	**899**	ug/kg	250	95.0	5	09/29/08 10:08	10/06/08 19:56	11097-69-1	
PCB-1260 (Aroclor 1260)	**104J**	ug/kg	250	95.0	5	09/29/08 10:08	10/06/08 19:56	11096-82-5	
PCB, Total	**1710**	ug/kg	250	95.0	5	09/29/08 10:08	10/06/08 19:56	1336-36-3	
Tetrachloro-m-xylene (S)	80	%	40-136		5	09/29/08 10:08	10/06/08 19:56	877-09-8	
Decachlorobiphenyl (S)	87	%	47-145		5	09/29/08 10:08	10/06/08 19:56	2051-24-3	
Lipid	Analytical Method: Pace Lipid								
Lipid	**0.32**	%		0.10	1		10/06/08 08:12		

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ANALYTICAL RESULTS

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 408721

Sample: BL-UR2-AC11-G, 9/6/08 **Lab ID: 408721005** Collected: 09/06/08 00:00 Received: 09/09/08 13:30 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCBs, Tissue	Analytical Method: EPA 8082 Preparation Method: EPA 3540								
PCB-1016 (Aroclor 1016)	**<3800**	ug/kg	10000	3800	200	09/29/08 10:08	10/06/08 20:21	12674-11-2	
PCB-1221 (Aroclor 1221)	**<3800**	ug/kg	10000	3800	200	09/29/08 10:08	10/06/08 20:21	11104-28-2	
PCB-1232 (Aroclor 1232)	**<3800**	ug/kg	10000	3800	200	09/29/08 10:08	10/06/08 20:21	11141-16-5	
PCB-1242 (Aroclor 1242)	**<3800**	ug/kg	10000	3800	200	09/29/08 10:08	10/06/08 20:21	53469-21-9	
PCB-1248 (Aroclor 1248)	**26300**	ug/kg	10000	3800	200	09/29/08 10:08	10/06/08 20:21	12672-29-6	
PCB-1254 (Aroclor 1254)	**21500**	ug/kg	10000	3800	200	09/29/08 10:08	10/06/08 20:21	11097-69-1	
PCB-1260 (Aroclor 1260)	**<3800**	ug/kg	10000	3800	200	09/29/08 10:08	10/06/08 20:21	11096-82-5	
PCB, Total	**47700**	ug/kg	10000	3800	200	09/29/08 10:08	10/06/08 20:21	1336-36-3	
Tetrachloro-m-xylene (S)	0	%	40-136		200	09/29/08 10:08	10/06/08 20:21	877-09-8	S4
Decachlorobiphenyl (S)	0	%	47-145		200	09/29/08 10:08	10/06/08 20:21	2051-24-3	S4
Lipid	Analytical Method: Pace Lipid								
Lipid	**10.0**	%		0.10	1		10/06/08 08:12		

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ANALYTICAL RESULTS

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 408721

Sample: BL-UR2-AC12-G, 9/6/08 **Lab ID: 408721006** Collected: 09/06/08 00:00 Received: 09/09/08 13:30 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCBs, Tissue	Analytical Method: EPA 8082 Preparation Method: EPA 3540								
PCB-1016 (Aroclor 1016)	**<950**	ug/kg	2500	950	50	09/29/08 10:08	10/06/08 20:47	12674-11-2	
PCB-1221 (Aroclor 1221)	**<950**	ug/kg	2500	950	50	09/29/08 10:08	10/06/08 20:47	11104-28-2	
PCB-1232 (Aroclor 1232)	**<950**	ug/kg	2500	950	50	09/29/08 10:08	10/06/08 20:47	11141-16-5	
PCB-1242 (Aroclor 1242)	**<950**	ug/kg	2500	950	50	09/29/08 10:08	10/06/08 20:47	53469-21-9	
PCB-1248 (Aroclor 1248)	**6240**	ug/kg	2500	950	50	09/29/08 10:08	10/06/08 20:47	12672-29-6	
PCB-1254 (Aroclor 1254)	**4250**	ug/kg	2500	950	50	09/29/08 10:08	10/06/08 20:47	11097-69-1	
PCB-1260 (Aroclor 1260)	**<950**	ug/kg	2500	950	50	09/29/08 10:08	10/06/08 20:47	11096-82-5	
PCB, Total	**10500**	ug/kg	2500	950	50	09/29/08 10:08	10/06/08 20:47	1336-36-3	
Tetrachloro-m-xylene (S)	0	%	40-136		50	09/29/08 10:08	10/06/08 20:47	877-09-8	S4
Decachlorobiphenyl (S)	0	%	47-145		50	09/29/08 10:08	10/06/08 20:47	2051-24-3	S4
Lipid	Analytical Method: Pace Lipid								
Lipid	**1.1**	%		0.10	1		10/06/08 08:12		

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ANALYTICAL RESULTS

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 408721

Sample: BL-UR2-AC13-G, 9/6/08 **Lab ID: 408721007** Collected: 09/06/08 00:00 Received: 09/09/08 13:30 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCBs, Tissue	Analytical Method: EPA 8082 Preparation Method: EPA 3540								
PCB-1016 (Aroclor 1016)	**<76.0**	ug/kg	200	76.0	4	09/29/08 10:08	10/06/08 21:13	12674-11-2	
PCB-1221 (Aroclor 1221)	**<76.0**	ug/kg	200	76.0	4	09/29/08 10:08	10/06/08 21:13	11104-28-2	
PCB-1232 (Aroclor 1232)	**<76.0**	ug/kg	200	76.0	4	09/29/08 10:08	10/06/08 21:13	11141-16-5	
PCB-1242 (Aroclor 1242)	**<76.0**	ug/kg	200	76.0	4	09/29/08 10:08	10/06/08 21:13	53469-21-9	
PCB-1248 (Aroclor 1248)	**720**	ug/kg	200	76.0	4	09/29/08 10:08	10/06/08 21:13	12672-29-6	
PCB-1254 (Aroclor 1254)	**303**	ug/kg	200	76.0	4	09/29/08 10:08	10/06/08 21:13	11097-69-1	
PCB-1260 (Aroclor 1260)	**<76.0**	ug/kg	200	76.0	4	09/29/08 10:08	10/06/08 21:13	11096-82-5	
PCB, Total	**1020**	ug/kg	200	76.0	4	09/29/08 10:08	10/06/08 21:13	1336-36-3	
Tetrachloro-m-xylene (S)	84	%	40-136		4	09/29/08 10:08	10/06/08 21:13	877-09-8	
Decachlorobiphenyl (S)	90	%	47-145		4	09/29/08 10:08	10/06/08 21:13	2051-24-3	
Lipid	Analytical Method: Pace Lipid								
Lipid	**0.29**	%		0.10	1		10/06/08 08:13		

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ANALYTICAL RESULTS

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 408721

Sample: BL-UR2-AC14-G, 9/6/08 **Lab ID: 408721008** Collected: 09/06/08 00:00 Received: 09/09/08 13:30 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCBs, Tissue	Analytical Method: EPA 8082 Preparation Method: EPA 3540								
PCB-1016 (Aroclor 1016)	**<1900**	ug/kg	5000	1900	100	09/29/08 10:08	10/06/08 21:39	12674-11-2	
PCB-1221 (Aroclor 1221)	**<1900**	ug/kg	5000	1900	100	09/29/08 10:08	10/06/08 21:39	11104-28-2	
PCB-1232 (Aroclor 1232)	**<1900**	ug/kg	5000	1900	100	09/29/08 10:08	10/06/08 21:39	11141-16-5	
PCB-1242 (Aroclor 1242)	**<1900**	ug/kg	5000	1900	100	09/29/08 10:08	10/06/08 21:39	53469-21-9	
PCB-1248 (Aroclor 1248)	**10100**	ug/kg	5000	1900	100	09/29/08 10:08	10/06/08 21:39	12672-29-6	
PCB-1254 (Aroclor 1254)	**5750**	ug/kg	5000	1900	100	09/29/08 10:08	10/06/08 21:39	11097-69-1	
PCB-1260 (Aroclor 1260)	**<1900**	ug/kg	5000	1900	100	09/29/08 10:08	10/06/08 21:39	11096-82-5	
PCB, Total	**15800**	ug/kg	5000	1900	100	09/29/08 10:08	10/06/08 21:39	1336-36-3	
Tetrachloro-m-xylene (S)	0	%	40-136		100	09/29/08 10:08	10/06/08 21:39	877-09-8	S4
Decachlorobiphenyl (S)	0	%	47-145		100	09/29/08 10:08	10/06/08 21:39	2051-24-3	S4
Lipid	Analytical Method: Pace Lipid								
Lipid	**2.1**	%		0.10	1		10/06/08 08:13		

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ANALYTICAL RESULTS

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 408721

Sample: BL-UR2-AC15-G, 9/6/08 **Lab ID: 408721009** Collected: 09/06/08 00:00 Received: 09/09/08 13:30 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCBs, Tissue	Analytical Method: EPA 8082 Preparation Method: EPA 3540								
PCB-1016 (Aroclor 1016)	**<76.0**	ug/kg	200	76.0	4	09/29/08 10:08	10/06/08 22:56	12674-11-2	
PCB-1221 (Aroclor 1221)	**<76.0**	ug/kg	200	76.0	4	09/29/08 10:08	10/06/08 22:56	11104-28-2	
PCB-1232 (Aroclor 1232)	**<76.0**	ug/kg	200	76.0	4	09/29/08 10:08	10/06/08 22:56	11141-16-5	
PCB-1242 (Aroclor 1242)	**<76.0**	ug/kg	200	76.0	4	09/29/08 10:08	10/06/08 22:56	53469-21-9	
PCB-1248 (Aroclor 1248)	**834**	ug/kg	200	76.0	4	09/29/08 10:08	10/06/08 22:56	12672-29-6	
PCB-1254 (Aroclor 1254)	**557**	ug/kg	200	76.0	4	09/29/08 10:08	10/06/08 22:56	11097-69-1	
PCB-1260 (Aroclor 1260)	**<76.0**	ug/kg	200	76.0	4	09/29/08 10:08	10/06/08 22:56	11096-82-5	
PCB, Total	**1390**	ug/kg	200	76.0	4	09/29/08 10:08	10/06/08 22:56	1336-36-3	
Tetrachloro-m-xylene (S)	79	%	40-136		4	09/29/08 10:08	10/06/08 22:56	877-09-8	
Decachlorobiphenyl (S)	88	%	47-145		4	09/29/08 10:08	10/06/08 22:56	2051-24-3	
Lipid	Analytical Method: Pace Lipid								
Lipid	**0.40**	%		0.10	1		10/06/08 08:13		

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ANALYTICAL RESULTS

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 408721

Sample: BL-UR2-AC16-G, 9/6/08 **Lab ID: 408721010** Collected: 09/06/08 00:00 Received: 09/09/08 13:30 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCBs, Tissue	Analytical Method: EPA 8082 Preparation Method: EPA 3540								
PCB-1016 (Aroclor 1016)	**<3800**	ug/kg	10000	3800	200	09/29/08 10:08	10/06/08 23:22	12674-11-2	
PCB-1221 (Aroclor 1221)	**<3800**	ug/kg	10000	3800	200	09/29/08 10:08	10/06/08 23:22	11104-28-2	
PCB-1232 (Aroclor 1232)	**<3800**	ug/kg	10000	3800	200	09/29/08 10:08	10/06/08 23:22	11141-16-5	
PCB-1242 (Aroclor 1242)	**<3800**	ug/kg	10000	3800	200	09/29/08 10:08	10/06/08 23:22	53469-21-9	
PCB-1248 (Aroclor 1248)	**20300**	ug/kg	10000	3800	200	09/29/08 10:08	10/06/08 23:22	12672-29-6	
PCB-1254 (Aroclor 1254)	**17000**	ug/kg	10000	3800	200	09/29/08 10:08	10/06/08 23:22	11097-69-1	
PCB-1260 (Aroclor 1260)	**<3800**	ug/kg	10000	3800	200	09/29/08 10:08	10/06/08 23:22	11096-82-5	
PCB, Total	**37300**	ug/kg	10000	3800	200	09/29/08 10:08	10/06/08 23:22	1336-36-3	
Tetrachloro-m-xylene (S)	0	%	40-136		200	09/29/08 10:08	10/06/08 23:22	877-09-8	S4
Decachlorobiphenyl (S)	0	%	47-145		200	09/29/08 10:08	10/06/08 23:22	2051-24-3	S4
Lipid	Analytical Method: Pace Lipid								
Lipid	**7.5**	%		0.10	1		10/06/08 08:13		

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ANALYTICAL RESULTS

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 408721

Sample: BL-UR2-AWS5-G, 9/6/08 **Lab ID: 408721011** Collected: 09/06/08 00:00 Received: 09/09/08 13:30 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCBs, Tissue	Analytical Method: EPA 8082 Preparation Method: EPA 3540								
PCB-1016 (Aroclor 1016)	**<380**	ug/kg	1000	380	20	09/29/08 10:08	10/06/08 23:47	12674-11-2	
PCB-1221 (Aroclor 1221)	**<380**	ug/kg	1000	380	20	09/29/08 10:08	10/06/08 23:47	11104-28-2	
PCB-1232 (Aroclor 1232)	**<380**	ug/kg	1000	380	20	09/29/08 10:08	10/06/08 23:47	11141-16-5	
PCB-1242 (Aroclor 1242)	**<380**	ug/kg	1000	380	20	09/29/08 10:08	10/06/08 23:47	53469-21-9	
PCB-1248 (Aroclor 1248)	**1810**	ug/kg	1000	380	20	09/29/08 10:08	10/06/08 23:47	12672-29-6	
PCB-1254 (Aroclor 1254)	**2140**	ug/kg	1000	380	20	09/29/08 10:08	10/06/08 23:47	11097-69-1	
PCB-1260 (Aroclor 1260)	**<380**	ug/kg	1000	380	20	09/29/08 10:08	10/06/08 23:47	11096-82-5	
PCB, Total	**3950**	ug/kg	1000	380	20	09/29/08 10:08	10/06/08 23:47	1336-36-3	
Tetrachloro-m-xylene (S)	0	%	40-136		20	09/29/08 10:08	10/06/08 23:47	877-09-8	S4
Decachlorobiphenyl (S)	0	%	47-145		20	09/29/08 10:08	10/06/08 23:47	2051-24-3	S4
Lipid	Analytical Method: Pace Lipid								
Lipid	**0.36**	%		0.10	1		10/06/08 08:14		

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ANALYTICAL RESULTS

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 408721

Sample: BL-UR2-AWS6-G, 9/6/08 **Lab ID: 408721012** Collected: 09/06/08 00:00 Received: 09/09/08 13:30 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCBs, Tissue	Analytical Method: EPA 8082 Preparation Method: EPA 3540								
PCB-1016 (Aroclor 1016)	**<1900**	ug/kg	5000	1900	100	09/29/08 10:08	10/07/08 00:13	12674-11-2	
PCB-1221 (Aroclor 1221)	**<1900**	ug/kg	5000	1900	100	09/29/08 10:08	10/07/08 00:13	11104-28-2	
PCB-1232 (Aroclor 1232)	**<1900**	ug/kg	5000	1900	100	09/29/08 10:08	10/07/08 00:13	11141-16-5	
PCB-1242 (Aroclor 1242)	**<1900**	ug/kg	5000	1900	100	09/29/08 10:08	10/07/08 00:13	53469-21-9	
PCB-1248 (Aroclor 1248)	**8260**	ug/kg	5000	1900	100	09/29/08 10:08	10/07/08 00:13	12672-29-6	
PCB-1254 (Aroclor 1254)	**8330**	ug/kg	5000	1900	100	09/29/08 10:08	10/07/08 00:13	11097-69-1	
PCB-1260 (Aroclor 1260)	**<1900**	ug/kg	5000	1900	100	09/29/08 10:08	10/07/08 00:13	11096-82-5	
PCB, Total	**16600**	ug/kg	5000	1900	100	09/29/08 10:08	10/07/08 00:13	1336-36-3	
Tetrachloro-m-xylene (S)	0	%	40-136		100	09/29/08 10:08	10/07/08 00:13	877-09-8	S4
Decachlorobiphenyl (S)	0	%	47-145		100	09/29/08 10:08	10/07/08 00:13	2051-24-3	S4
Lipid	Analytical Method: Pace Lipid								
Lipid	**1.3**	%		0.10	1		10/06/08 08:14		

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ANALYTICAL RESULTS

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 408721

Sample: BL-UR2-AWS7-G, 9/6/08 **Lab ID: 408721013** Collected: 09/06/08 00:00 Received: 09/09/08 13:30 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCBs, Tissue	Analytical Method: EPA 8082 Preparation Method: EPA 3540								
PCB-1016 (Aroclor 1016)	**<570**	ug/kg	1500	570	30	09/29/08 10:08	10/07/08 00:39	12674-11-2	
PCB-1221 (Aroclor 1221)	**<570**	ug/kg	1500	570	30	09/29/08 10:08	10/07/08 00:39	11104-28-2	
PCB-1232 (Aroclor 1232)	**<570**	ug/kg	1500	570	30	09/29/08 10:08	10/07/08 00:39	11141-16-5	
PCB-1242 (Aroclor 1242)	**<570**	ug/kg	1500	570	30	09/29/08 10:08	10/07/08 00:39	53469-21-9	
PCB-1248 (Aroclor 1248)	**3370**	ug/kg	1500	570	30	09/29/08 10:08	10/07/08 00:39	12672-29-6	
PCB-1254 (Aroclor 1254)	**2580**	ug/kg	1500	570	30	09/29/08 10:08	10/07/08 00:39	11097-69-1	
PCB-1260 (Aroclor 1260)	**<570**	ug/kg	1500	570	30	09/29/08 10:08	10/07/08 00:39	11096-82-5	
PCB, Total	**5950**	ug/kg	1500	570	30	09/29/08 10:08	10/07/08 00:39	1336-36-3	
Tetrachloro-m-xylene (S)	0	%	40-136		30	09/29/08 10:08	10/07/08 00:39	877-09-8	S4
Decachlorobiphenyl (S)	0	%	47-145		30	09/29/08 10:08	10/07/08 00:39	2051-24-3	S4
Lipid	Analytical Method: Pace Lipid								
Lipid	**1.1**	%		0.10	1		10/06/08 08:14		

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ANALYTICAL RESULTS

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 408721

Sample: BL-UR2-AWS8-G, 9/6/08 **Lab ID: 408721014** Collected: 09/06/08 00:00 Received: 09/09/08 13:30 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCBs, Tissue	Analytical Method: EPA 8082 Preparation Method: EPA 3540								
PCB-1016 (Aroclor 1016)	**<950**	ug/kg	2500	950	50	09/29/08 10:08	10/07/08 01:05	12674-11-2	
PCB-1221 (Aroclor 1221)	**<950**	ug/kg	2500	950	50	09/29/08 10:08	10/07/08 01:05	11104-28-2	
PCB-1232 (Aroclor 1232)	**<950**	ug/kg	2500	950	50	09/29/08 10:08	10/07/08 01:05	11141-16-5	
PCB-1242 (Aroclor 1242)	**<950**	ug/kg	2500	950	50	09/29/08 10:08	10/07/08 01:05	53469-21-9	
PCB-1248 (Aroclor 1248)	**3830**	ug/kg	2500	950	50	09/29/08 10:08	10/07/08 01:05	12672-29-6	
PCB-1254 (Aroclor 1254)	**3680**	ug/kg	2500	950	50	09/29/08 10:08	10/07/08 01:05	11097-69-1	
PCB-1260 (Aroclor 1260)	**<950**	ug/kg	2500	950	50	09/29/08 10:08	10/07/08 01:05	11096-82-5	
PCB, Total	**7520**	ug/kg	2500	950	50	09/29/08 10:08	10/07/08 01:05	1336-36-3	
Tetrachloro-m-xylene (S)	0	%	40-136		50	09/29/08 10:08	10/07/08 01:05	877-09-8	S4
Decachlorobiphenyl (S)	0	%	47-145		50	09/29/08 10:08	10/07/08 01:05	2051-24-3	S4
Lipid	Analytical Method: Pace Lipid								
Lipid	**0.84**	%		0.10	1		10/06/08 08:14		

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ANALYTICAL RESULTS

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 408721

Sample: BL-UR2-RB8-G, 9/6/08 **Lab ID: 408721015** Collected: 09/06/08 00:00 Received: 09/09/08 13:30 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCBs, Tissue	Analytical Method: EPA 8082 Preparation Method: EPA 3540								
PCB-1016 (Aroclor 1016)	**<38.0**	ug/kg	100	38.0	1	09/29/08 10:08	10/07/08 01:30	12674-11-2	
PCB-1221 (Aroclor 1221)	**<38.0**	ug/kg	100	38.0	1	09/29/08 10:08	10/07/08 01:30	11104-28-2	
PCB-1232 (Aroclor 1232)	**<38.0**	ug/kg	100	38.0	1	09/29/08 10:08	10/07/08 01:30	11141-16-5	
PCB-1242 (Aroclor 1242)	**<38.0**	ug/kg	100	38.0	1	09/29/08 10:08	10/07/08 01:30	53469-21-9	
PCB-1248 (Aroclor 1248)	**436**	ug/kg	100	38.0	1	09/29/08 10:08	10/07/08 01:30	12672-29-6	
PCB-1254 (Aroclor 1254)	**303**	ug/kg	100	38.0	1	09/29/08 10:08	10/07/08 01:30	11097-69-1	
PCB-1260 (Aroclor 1260)	**<38.0**	ug/kg	100	38.0	1	09/29/08 10:08	10/07/08 01:30	11096-82-5	
PCB, Total	**739**	ug/kg	100	38.0	1	09/29/08 10:08	10/07/08 01:30	1336-36-3	
Tetrachloro-m-xylene (S)	53	%	40-136		1	09/29/08 10:08	10/07/08 01:30	877-09-8	
Decachlorobiphenyl (S)	55	%	47-145		1	09/29/08 10:08	10/07/08 01:30	2051-24-3	
Lipid	Analytical Method: Pace Lipid								
Lipid	**0.24**	%		0.10	1		10/06/08 08:15		

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ANALYTICAL RESULTS

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 408721

Sample: BL-MR2-SB1-G, 9/8/08 **Lab ID: 408721016** Collected: 09/08/08 00:00 Received: 09/09/08 13:30 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCBs, Tissue	Analytical Method: EPA 8082 Preparation Method: EPA 3540								
PCB-1016 (Aroclor 1016)	**<190**	ug/kg	500	190	10	09/29/08 10:08	10/07/08 01:56	12674-11-2	
PCB-1221 (Aroclor 1221)	**<190**	ug/kg	500	190	10	09/29/08 10:08	10/07/08 01:56	11104-28-2	
PCB-1232 (Aroclor 1232)	**<190**	ug/kg	500	190	10	09/29/08 10:08	10/07/08 01:56	11141-16-5	
PCB-1242 (Aroclor 1242)	**<190**	ug/kg	500	190	10	09/29/08 10:08	10/07/08 01:56	53469-21-9	
PCB-1248 (Aroclor 1248)	**1500**	ug/kg	500	190	10	09/29/08 10:08	10/07/08 01:56	12672-29-6	
PCB-1254 (Aroclor 1254)	**1760**	ug/kg	500	190	10	09/29/08 10:08	10/07/08 01:56	11097-69-1	
PCB-1260 (Aroclor 1260)	**274J**	ug/kg	500	190	10	09/29/08 10:08	10/07/08 01:56	11096-82-5	
PCB, Total	**3530**	ug/kg	500	190	10	09/29/08 10:08	10/07/08 01:56	1336-36-3	
Tetrachloro-m-xylene (S)	78	%	40-136		10	09/29/08 10:08	10/07/08 01:56	877-09-8	
Decachlorobiphenyl (S)	90	%	47-145		10	09/29/08 10:08	10/07/08 01:56	2051-24-3	
Lipid	Analytical Method: Pace Lipid								
Lipid	**0.88**	%		0.10	1		10/06/08 08:15		

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ANALYTICAL RESULTS

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 408721

Sample: BL-MR2-SB2-G, 9/8/08 **Lab ID: 408721017** Collected: 09/08/08 00:00 Received: 09/09/08 13:30 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCBs, Tissue	Analytical Method: EPA 8082 Preparation Method: EPA 3540								
PCB-1016 (Aroclor 1016)	**<950**	ug/kg	2500	950	50	09/29/08 10:08	10/07/08 02:22	12674-11-2	
PCB-1221 (Aroclor 1221)	**<950**	ug/kg	2500	950	50	09/29/08 10:08	10/07/08 02:22	11104-28-2	
PCB-1232 (Aroclor 1232)	**<950**	ug/kg	2500	950	50	09/29/08 10:08	10/07/08 02:22	11141-16-5	
PCB-1242 (Aroclor 1242)	**<950**	ug/kg	2500	950	50	09/29/08 10:08	10/07/08 02:22	53469-21-9	
PCB-1248 (Aroclor 1248)	**3570**	ug/kg	2500	950	50	09/29/08 10:08	10/07/08 02:22	12672-29-6	
PCB-1254 (Aroclor 1254)	**4070**	ug/kg	2500	950	50	09/29/08 10:08	10/07/08 02:22	11097-69-1	
PCB-1260 (Aroclor 1260)	**<950**	ug/kg	2500	950	50	09/29/08 10:08	10/07/08 02:22	11096-82-5	
PCB, Total	**7650**	ug/kg	2500	950	50	09/29/08 10:08	10/07/08 02:22	1336-36-3	
Tetrachloro-m-xylene (S)	0	%	40-136		50	09/29/08 10:08	10/07/08 02:22	877-09-8	S4
Decachlorobiphenyl (S)	0	%	47-145		50	09/29/08 10:08	10/07/08 02:22	2051-24-3	S4
Lipid	Analytical Method: Pace Lipid								
Lipid	**1.1**	%		0.10	1		10/06/08 08:15		

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ANALYTICAL RESULTS

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 408721

Sample: BL-MR2-SB3-G, 9/8/08 **Lab ID: 408721018** Collected: 09/08/08 00:00 Received: 09/09/08 13:30 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCBs, Tissue	Analytical Method: EPA 8082 Preparation Method: EPA 3540								
PCB-1016 (Aroclor 1016)	**<570**	ug/kg	1500	570	30	09/29/08 10:08	10/07/08 02:48	12674-11-2	
PCB-1221 (Aroclor 1221)	**<570**	ug/kg	1500	570	30	09/29/08 10:08	10/07/08 02:48	11104-28-2	
PCB-1232 (Aroclor 1232)	**<570**	ug/kg	1500	570	30	09/29/08 10:08	10/07/08 02:48	11141-16-5	
PCB-1242 (Aroclor 1242)	**<570**	ug/kg	1500	570	30	09/29/08 10:08	10/07/08 02:48	53469-21-9	
PCB-1248 (Aroclor 1248)	**2990**	ug/kg	1500	570	30	09/29/08 10:08	10/07/08 02:48	12672-29-6	
PCB-1254 (Aroclor 1254)	**2550**	ug/kg	1500	570	30	09/29/08 10:08	10/07/08 02:48	11097-69-1	
PCB-1260 (Aroclor 1260)	**<570**	ug/kg	1500	570	30	09/29/08 10:08	10/07/08 02:48	11096-82-5	
PCB, Total	**5540**	ug/kg	1500	570	30	09/29/08 10:08	10/07/08 02:48	1336-36-3	
Tetrachloro-m-xylene (S)	0	%	40-136		30	09/29/08 10:08	10/07/08 02:48	877-09-8	S4
Decachlorobiphenyl (S)	0	%	47-145		30	09/29/08 10:08	10/07/08 02:48	2051-24-3	S4
Lipid	Analytical Method: Pace Lipid								
Lipid	**2.0**	%		0.10	1		10/06/08 08:15		

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ANALYTICAL RESULTS

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 408721

Sample: BL-MR2-SB4-G, 9/8/08 **Lab ID: 408721019** Collected: 09/08/08 00:00 Received: 09/09/08 13:30 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCBs, Tissue	Analytical Method: EPA 8082 Preparation Method: EPA 3540								
PCB-1016 (Aroclor 1016)	**<190**	ug/kg	500	190	10	09/29/08 10:08	10/07/08 03:13	12674-11-2	
PCB-1221 (Aroclor 1221)	**<190**	ug/kg	500	190	10	09/29/08 10:08	10/07/08 03:13	11104-28-2	
PCB-1232 (Aroclor 1232)	**<190**	ug/kg	500	190	10	09/29/08 10:08	10/07/08 03:13	11141-16-5	
PCB-1242 (Aroclor 1242)	**<190**	ug/kg	500	190	10	09/29/08 10:08	10/07/08 03:13	53469-21-9	
PCB-1248 (Aroclor 1248)	**1360**	ug/kg	500	190	10	09/29/08 10:08	10/07/08 03:13	12672-29-6	
PCB-1254 (Aroclor 1254)	**1280**	ug/kg	500	190	10	09/29/08 10:08	10/07/08 03:13	11097-69-1	
PCB-1260 (Aroclor 1260)	**<190**	ug/kg	500	190	10	09/29/08 10:08	10/07/08 03:13	11096-82-5	
PCB, Total	**2640**	ug/kg	500	190	10	09/29/08 10:08	10/07/08 03:13	1336-36-3	
Tetrachloro-m-xylene (S)	86	%	40-136		10	09/29/08 10:08	10/07/08 03:13	877-09-8	
Decachlorobiphenyl (S)	94	%	47-145		10	09/29/08 10:08	10/07/08 03:13	2051-24-3	
Lipid	Analytical Method: Pace Lipid								
Lipid	**1.1**	%		0.10	1		10/06/08 08:16		

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ANALYTICAL RESULTS

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 408721

Sample: BL-MR2-SB5-G, 9/8/08 **Lab ID: 408721020** Collected: 09/08/08 00:00 Received: 09/09/08 13:30 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCBs, Tissue	Analytical Method: EPA 8082 Preparation Method: EPA 3540								
PCB-1016 (Aroclor 1016)	**<380**	ug/kg	1000	380	20	09/29/08 10:08	10/07/08 03:39	12674-11-2	
PCB-1221 (Aroclor 1221)	**<380**	ug/kg	1000	380	20	09/29/08 10:08	10/07/08 03:39	11104-28-2	
PCB-1232 (Aroclor 1232)	**<380**	ug/kg	1000	380	20	09/29/08 10:08	10/07/08 03:39	11141-16-5	
PCB-1242 (Aroclor 1242)	**<380**	ug/kg	1000	380	20	09/29/08 10:08	10/07/08 03:39	53469-21-9	
PCB-1248 (Aroclor 1248)	**2050**	ug/kg	1000	380	20	09/29/08 10:08	10/07/08 03:39	12672-29-6	
PCB-1254 (Aroclor 1254)	**1600**	ug/kg	1000	380	20	09/29/08 10:08	10/07/08 03:39	11097-69-1	
PCB-1260 (Aroclor 1260)	**<380**	ug/kg	1000	380	20	09/29/08 10:08	10/07/08 03:39	11096-82-5	
PCB, Total	**3650**	ug/kg	1000	380	20	09/29/08 10:08	10/07/08 03:39	1336-36-3	
Tetrachloro-m-xylene (S)	0	%	40-136		20	09/29/08 10:08	10/07/08 03:39	877-09-8	S4
Decachlorobiphenyl (S)	0	%	47-145		20	09/29/08 10:08	10/07/08 03:39	2051-24-3	S4
Lipid	Analytical Method: Pace Lipid								
Lipid	**1.1**	%		0.10	1		10/06/08 08:16		

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QUALITY CONTROL DATA

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 408721

QC Batch: OEXT/2795 Analysis Method: EPA 8082
QC Batch Method: EPA 3540 Analysis Description: 8082 GCS Tissue Pesticides
Associated Lab Samples: 408721001, 408721002, 408721003, 408721004, 408721005, 408721006, 408721007, 408721008, 408721009, 408721010, 408721011, 408721012, 408721013, 408721014, 408721015, 408721016, 408721017, 408721018, 408721019, 408721020

METHOD BLANK: 82233 Matrix: Tissue
Associated Lab Samples: 408721001, 408721002, 408721003, 408721004, 408721005, 408721006, 408721007, 408721008, 408721009, 408721010, 408721011, 408721012, 408721013, 408721014, 408721015, 408721016, 408721017, 408721018, 408721019, 408721020

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg	<19.0	50.0	10/06/08 16:55	
PCB-1221 (Aroclor 1221)	ug/kg	<19.0	50.0	10/06/08 16:55	
PCB-1232 (Aroclor 1232)	ug/kg	<19.0	50.0	10/06/08 16:55	
PCB-1242 (Aroclor 1242)	ug/kg	<19.0	50.0	10/06/08 16:55	
PCB-1248 (Aroclor 1248)	ug/kg	<19.0	50.0	10/06/08 16:55	
PCB-1254 (Aroclor 1254)	ug/kg	<19.0	50.0	10/06/08 16:55	
PCB-1260 (Aroclor 1260)	ug/kg	<19.0	50.0	10/06/08 16:55	
Decachlorobiphenyl (S)	%	82	47-145	10/06/08 16:55	
Tetrachloro-m-xylene (S)	%	83	40-136	10/06/08 16:55	

LABORATORY CONTROL SAMPLE: 82234

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg		<19.0			
PCB-1221 (Aroclor 1221)	ug/kg		<19.0			
PCB-1232 (Aroclor 1232)	ug/kg		<19.0			
PCB-1242 (Aroclor 1242)	ug/kg		<19.0			
PCB-1248 (Aroclor 1248)	ug/kg		<19.0			
PCB-1254 (Aroclor 1254)	ug/kg	250	207	83	40-128	
PCB-1260 (Aroclor 1260)	ug/kg		<19.0			
Decachlorobiphenyl (S)	%			79	47-145	
Tetrachloro-m-xylene (S)	%			81	40-136	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 82235 82236

Parameter	Units	408721001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
PCB-1016 (Aroclor 1016)	ug/kg	<950			<950	<950					56	
PCB-1221 (Aroclor 1221)	ug/kg	<950			<950	<950					56	
PCB-1232 (Aroclor 1232)	ug/kg	<950			<950	<950					56	
PCB-1242 (Aroclor 1242)	ug/kg	<950			<950	<950					56	
PCB-1248 (Aroclor 1248)	ug/kg	5350			5600	5810				4	56	
PCB-1254 (Aroclor 1254)	ug/kg	3880	1000	1000	4920	5050	104	116	43-130	3	56	M6
PCB-1260 (Aroclor 1260)	ug/kg	<950			<950	<950					56	
Decachlorobiphenyl (S)	%						0	0	47-145			S4
Tetrachloro-m-xylene (S)	%						0	0	40-136			S4

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, Inc.
1241 Bellevue Street
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 408721

QC Batch: OEXT/2808 Analysis Method: Pace Lipid
QC Batch Method: Pace Lipid Analysis Description: LIPID
Associated Lab Samples: 408721001, 408721002, 408721003, 408721004, 408721005, 408721006, 408721007, 408721008, 408721009, 408721010, 408721011, 408721012, 408721013, 408721014, 408721015, 408721016, 408721017, 408721018, 408721019, 408721020

METHOD BLANK: 82612 Matrix: Tissue
Associated Lab Samples: 408721001, 408721002, 408721003, 408721004, 408721005, 408721006, 408721007, 408721008, 408721009, 408721010, 408721011, 408721012, 408721013, 408721014, 408721015, 408721016, 408721017, 408721018, 408721019, 408721020

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lipid	%	<0.10		10/06/08 08:11	

SAMPLE DUPLICATE: 82613

Parameter	Units	408721001 Result	Dup Result	RPD	Max RPD	Qualifiers
Lipid	%	0.98	0.99	2	20	

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QUALIFIERS

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 408721

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

Pace Analytical is NELAP accredited. Contact your Pace PM for the current list of accredited analytes.

ANALYTE QUALIFIERS

M6	Matrix spike and Matrix spike duplicate recovery not evaluated against control limits due to sample dilution.
S4	Surrogate recovery not evaluated against control limits due to sample dilution.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: CB08-002 SHEBOYGAN RIVER
Pace Project No.: 408721

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
408721001	BL-UR2-AC7-G, 9/6/08	EPA 3540	OEXT/2795	EPA 8082	GCSV/1960
408721002	BL-UR2-AC8-G, 9/6/08	EPA 3540	OEXT/2795	EPA 8082	GCSV/1960
408721003	BL-UR2-AC9-G, 9/6/08	EPA 3540	OEXT/2795	EPA 8082	GCSV/1960
408721004	BL-UR2-AC10-G, 9/6/08	EPA 3540	OEXT/2795	EPA 8082	GCSV/1960
408721005	BL-UR2-AC11-G, 9/6/08	EPA 3540	OEXT/2795	EPA 8082	GCSV/1960
408721006	BL-UR2-AC12-G, 9/6/08	EPA 3540	OEXT/2795	EPA 8082	GCSV/1960
408721007	BL-UR2-AC13-G, 9/6/08	EPA 3540	OEXT/2795	EPA 8082	GCSV/1960
408721008	BL-UR2-AC14-G, 9/6/08	EPA 3540	OEXT/2795	EPA 8082	GCSV/1960
408721009	BL-UR2-AC15-G, 9/6/08	EPA 3540	OEXT/2795	EPA 8082	GCSV/1960
408721010	BL-UR2-AC16-G, 9/6/08	EPA 3540	OEXT/2795	EPA 8082	GCSV/1960
408721011	BL-UR2-AWS5-G, 9/6/08	EPA 3540	OEXT/2795	EPA 8082	GCSV/1960
408721012	BL-UR2-AWS6-G, 9/6/08	EPA 3540	OEXT/2795	EPA 8082	GCSV/1960
408721013	BL-UR2-AWS7-G, 9/6/08	EPA 3540	OEXT/2795	EPA 8082	GCSV/1960
408721014	BL-UR2-AWS8-G, 9/6/08	EPA 3540	OEXT/2795	EPA 8082	GCSV/1960
408721015	BL-UR2-RB8-G, 9/6/08	EPA 3540	OEXT/2795	EPA 8082	GCSV/1960
408721016	BL-MR2-SB1-G, 9/8/08	EPA 3540	OEXT/2795	EPA 8082	GCSV/1960
408721017	BL-MR2-SB2-G, 9/8/08	EPA 3540	OEXT/2795	EPA 8082	GCSV/1960
408721018	BL-MR2-SB3-G, 9/8/08	EPA 3540	OEXT/2795	EPA 8082	GCSV/1960
408721019	BL-MR2-SB4-G, 9/8/08	EPA 3540	OEXT/2795	EPA 8082	GCSV/1960
408721020	BL-MR2-SB5-G, 9/8/08	EPA 3540	OEXT/2795	EPA 8082	GCSV/1960
408721001	BL-UR2-AC7-G, 9/6/08	Pace Lipid	OEXT/2808		
408721002	BL-UR2-AC8-G, 9/6/08	Pace Lipid	OEXT/2808		
408721003	BL-UR2-AC9-G, 9/6/08	Pace Lipid	OEXT/2808		
408721004	BL-UR2-AC10-G, 9/6/08	Pace Lipid	OEXT/2808		
408721005	BL-UR2-AC11-G, 9/6/08	Pace Lipid	OEXT/2808		
408721006	BL-UR2-AC12-G, 9/6/08	Pace Lipid	OEXT/2808		
408721007	BL-UR2-AC13-G, 9/6/08	Pace Lipid	OEXT/2808		
408721008	BL-UR2-AC14-G, 9/6/08	Pace Lipid	OEXT/2808		
408721009	BL-UR2-AC15-G, 9/6/08	Pace Lipid	OEXT/2808		
408721010	BL-UR2-AC16-G, 9/6/08	Pace Lipid	OEXT/2808		
408721011	BL-UR2-AWS5-G, 9/6/08	Pace Lipid	OEXT/2808		
408721012	BL-UR2-AWS6-G, 9/6/08	Pace Lipid	OEXT/2808		
408721013	BL-UR2-AWS7-G, 9/6/08	Pace Lipid	OEXT/2808		
408721014	BL-UR2-AWS8-G, 9/6/08	Pace Lipid	OEXT/2808		
408721015	BL-UR2-RB8-G, 9/6/08	Pace Lipid	OEXT/2808		
408721016	BL-MR2-SB1-G, 9/8/08	Pace Lipid	OEXT/2808		
408721017	BL-MR2-SB2-G, 9/8/08	Pace Lipid	OEXT/2808		
408721018	BL-MR2-SB3-G, 9/8/08	Pace Lipid	OEXT/2808		
408721019	BL-MR2-SB4-G, 9/8/08	Pace Lipid	OEXT/2808		
408721020	BL-MR2-SB5-G, 9/8/08	Pace Lipid	OEXT/2808		

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Appendix 3

Appendix 3

Charts

Chart 1

2008 Baseline Fish Monitoring PCB Results - Sheboygan River

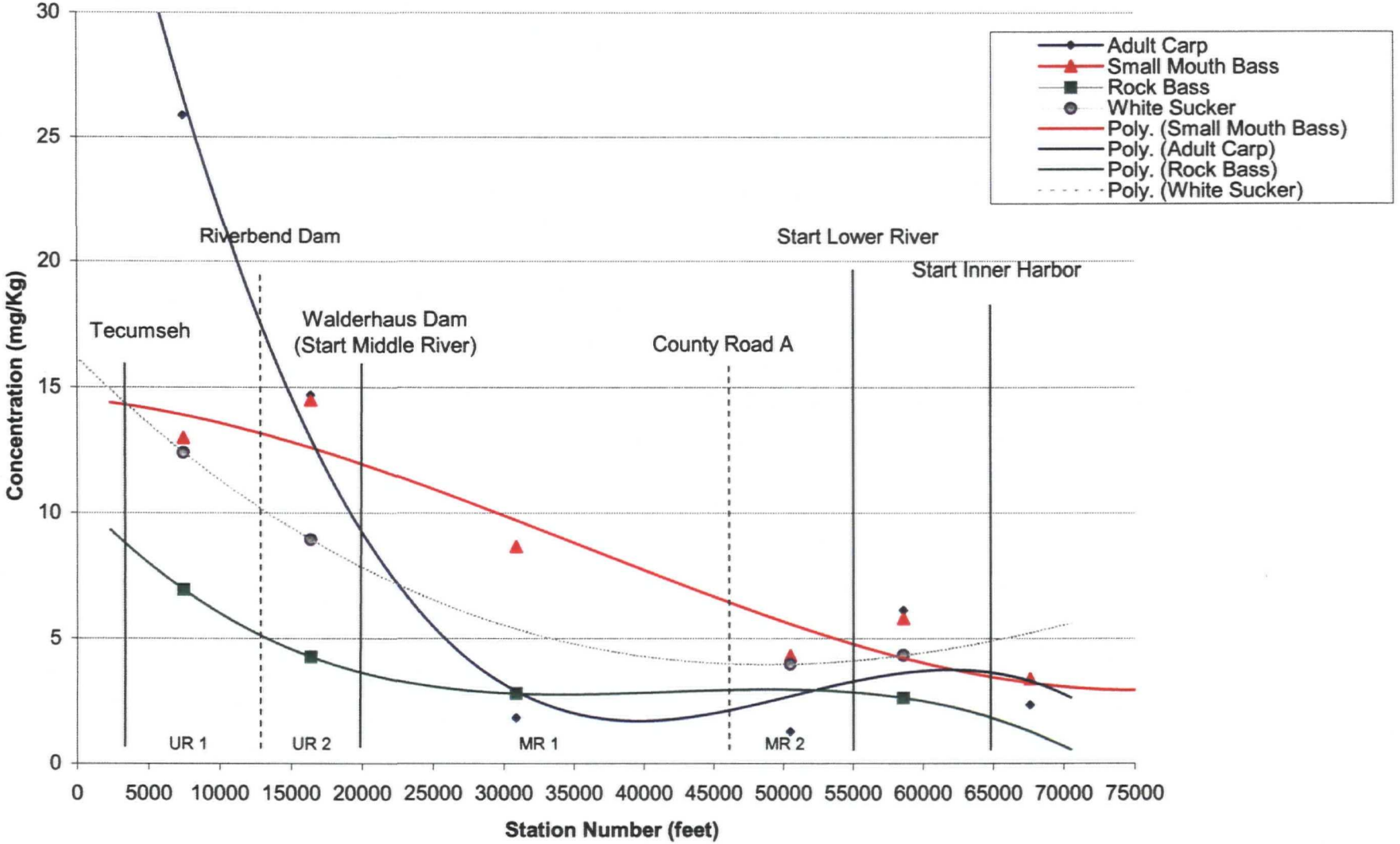


Chart 2
Upper River Site 1 PCB Results - Small Mouth Bass

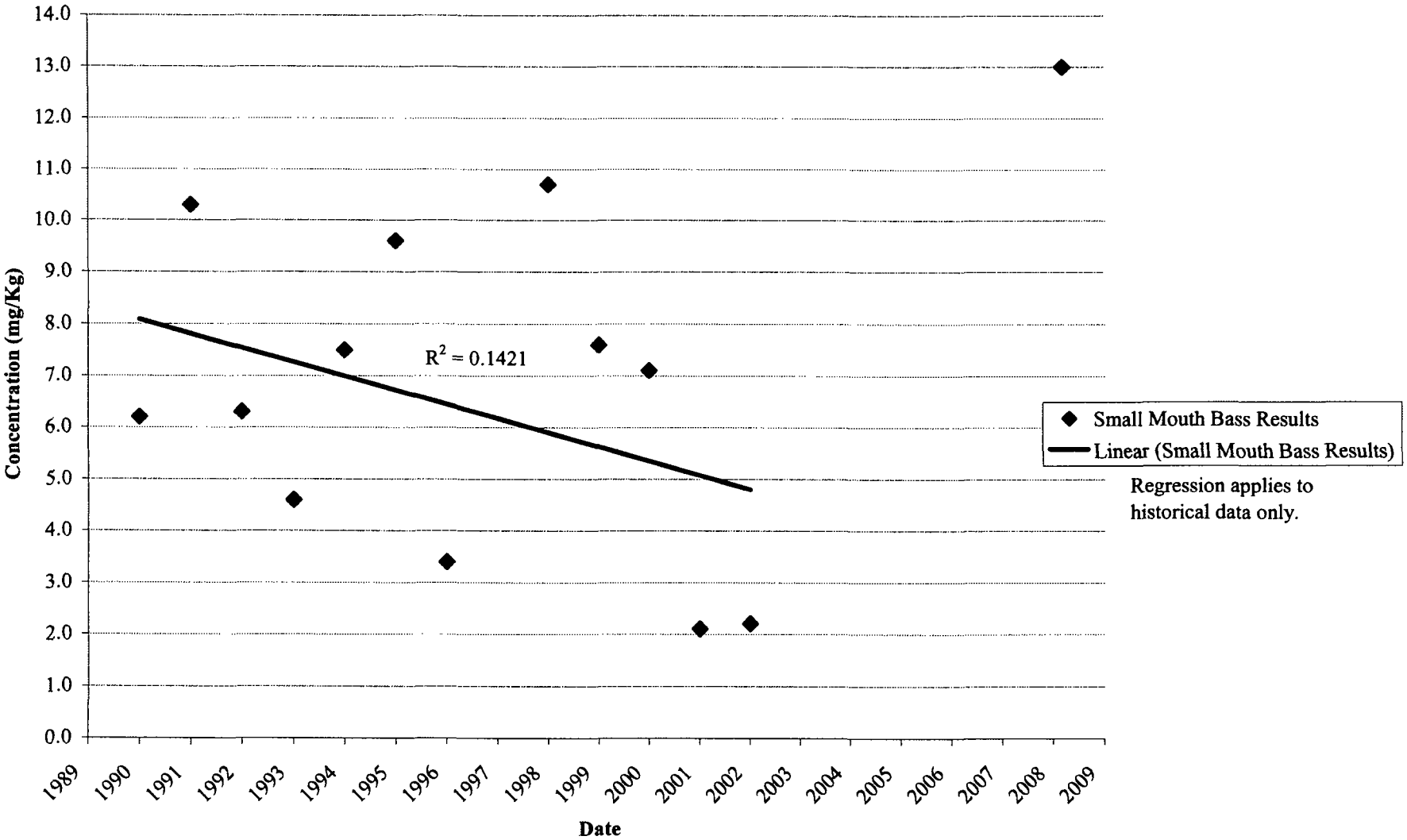


Chart 3
Upper River Site 2 PCB Results - Small Mouth Bass

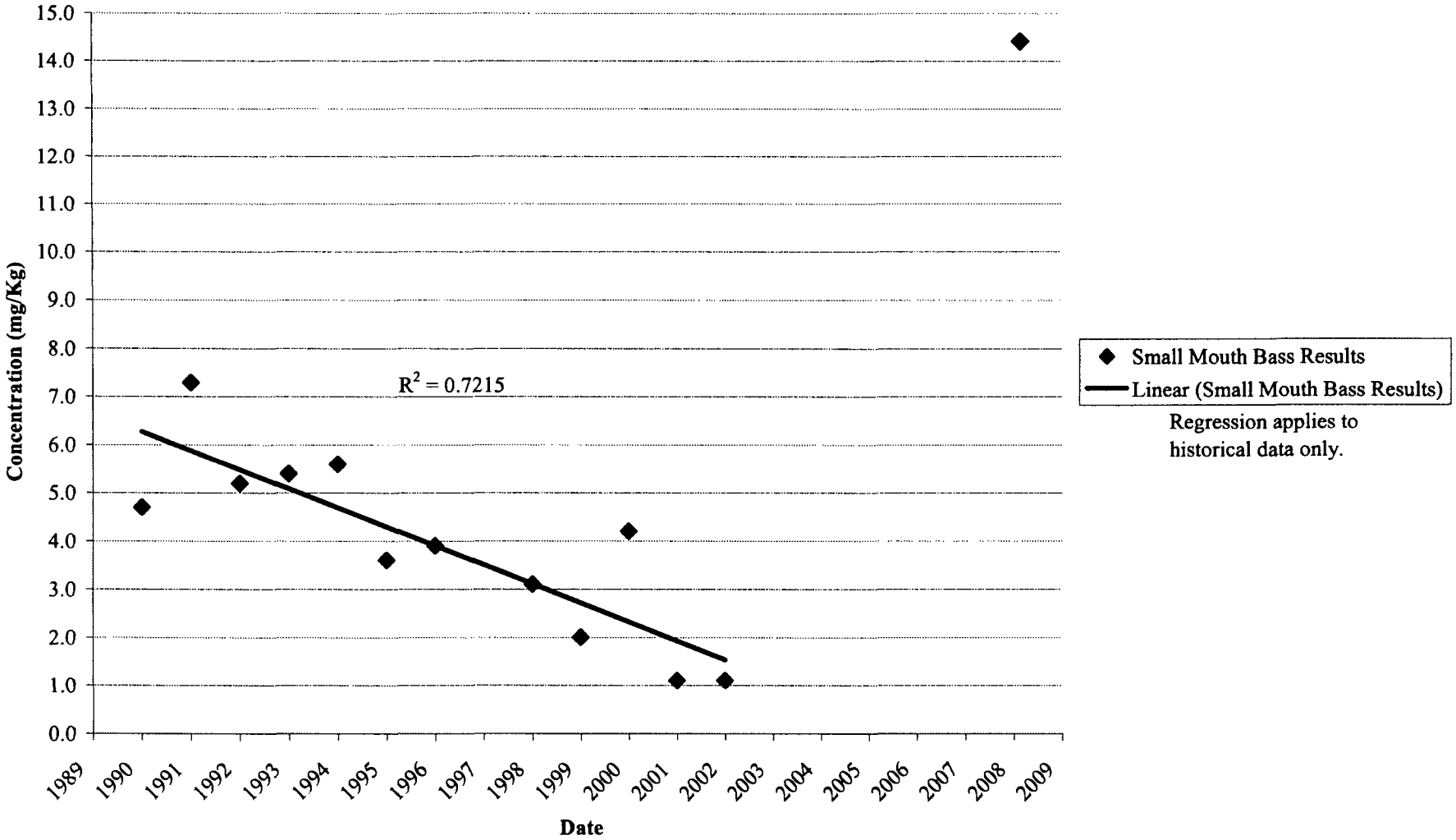


Chart 4
Upper River PCB Results - White Sucker

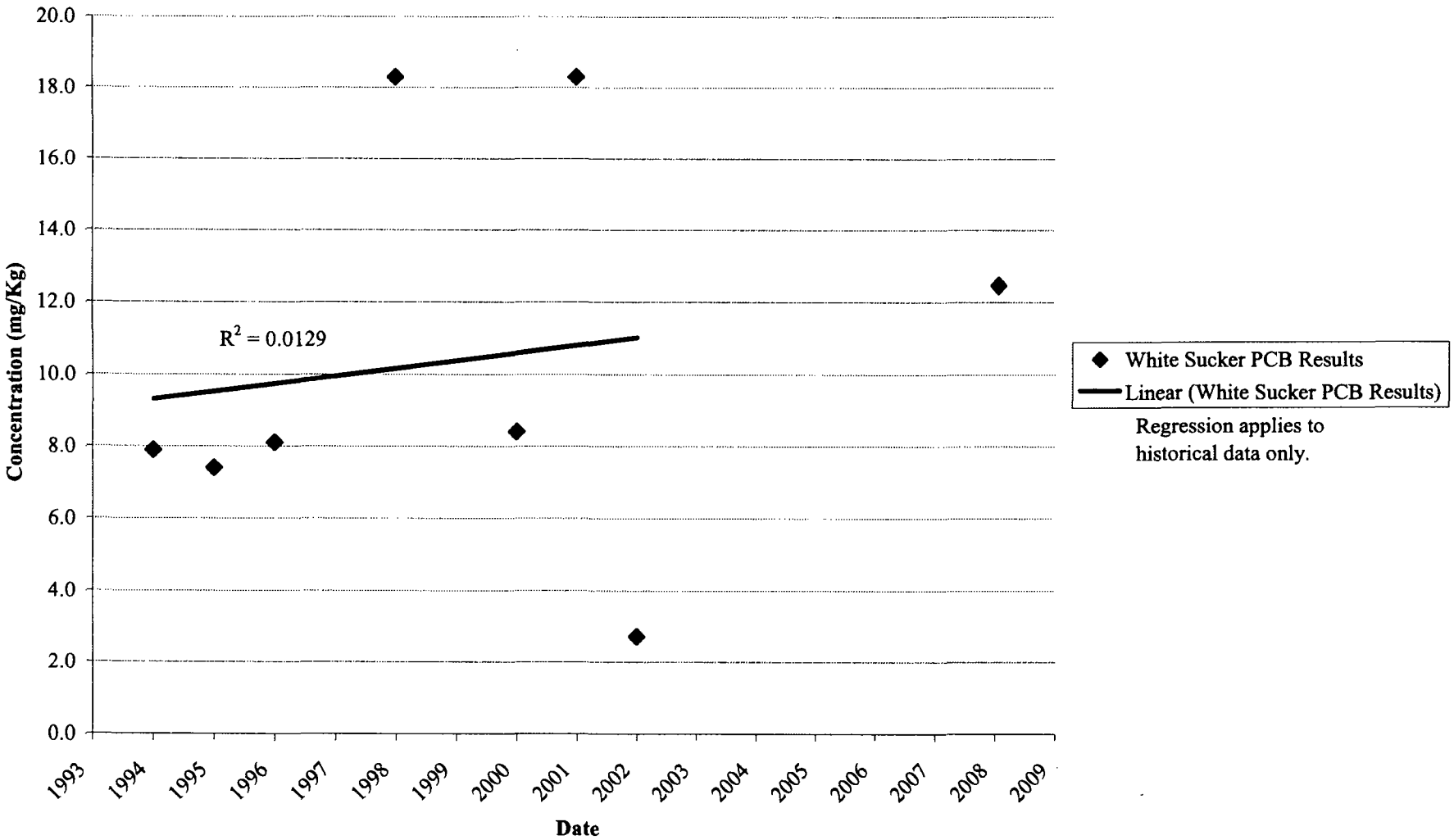


Chart 5
Upper River 2 PCB Results - White Suckers

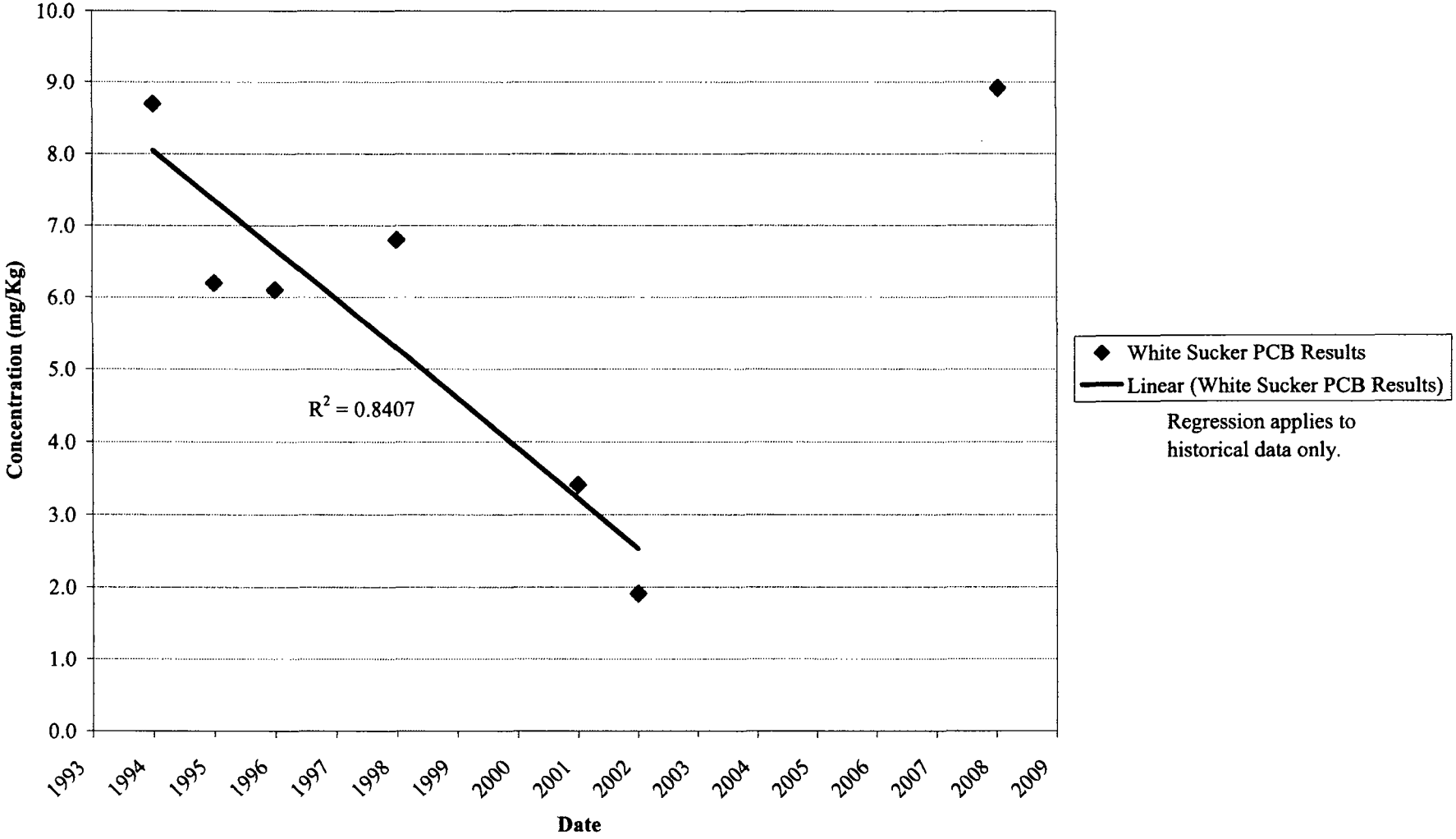
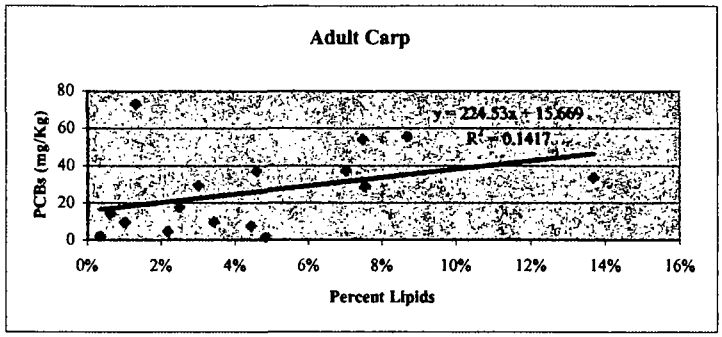
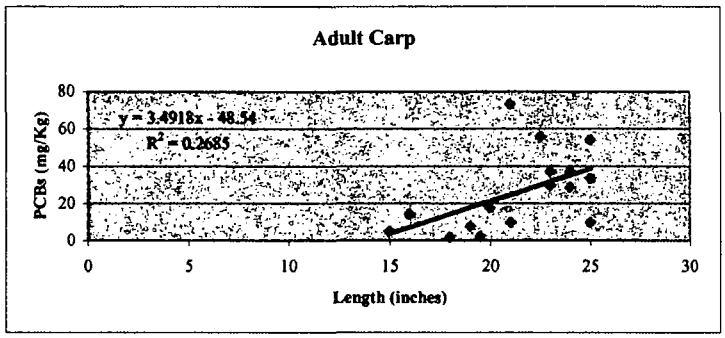
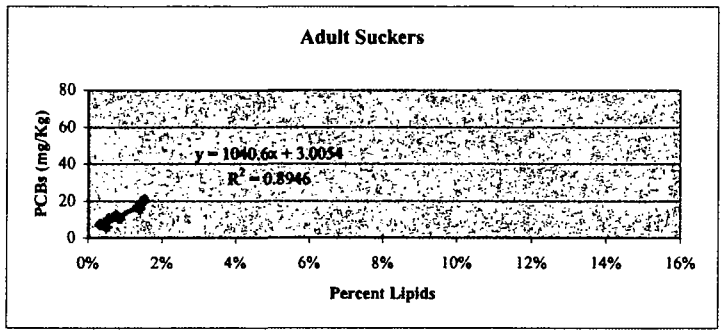
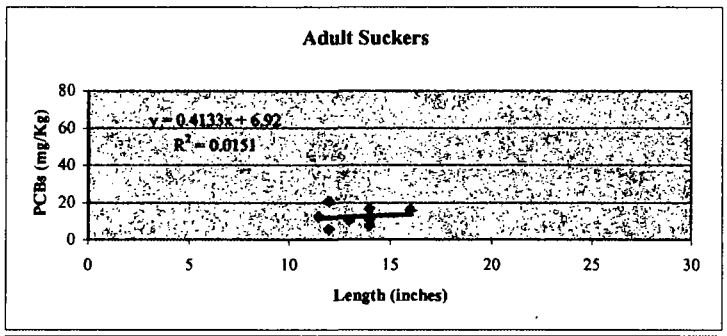


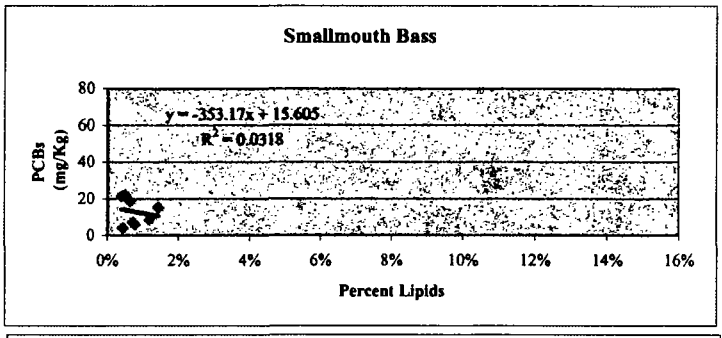
Chart 6
Upper River 1 Linear Regression Analysis of Selected Fish Species

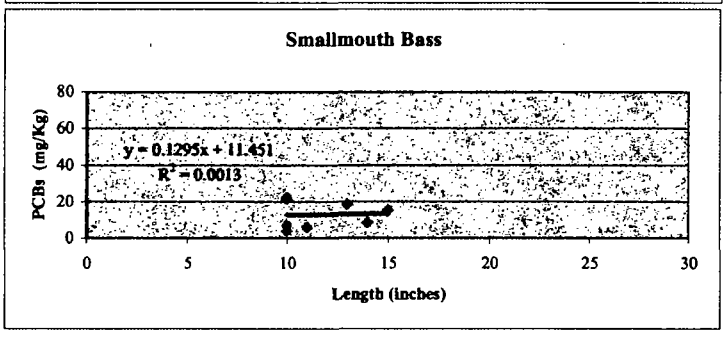


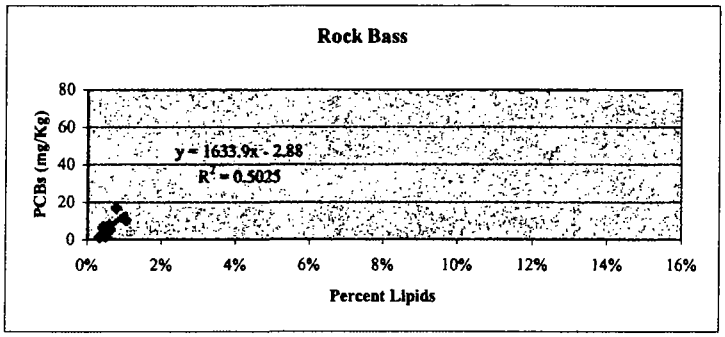












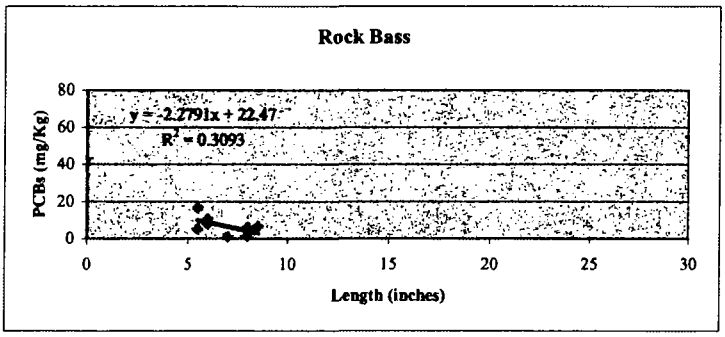
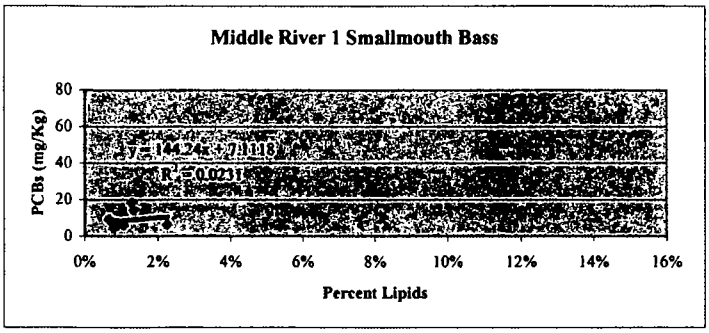
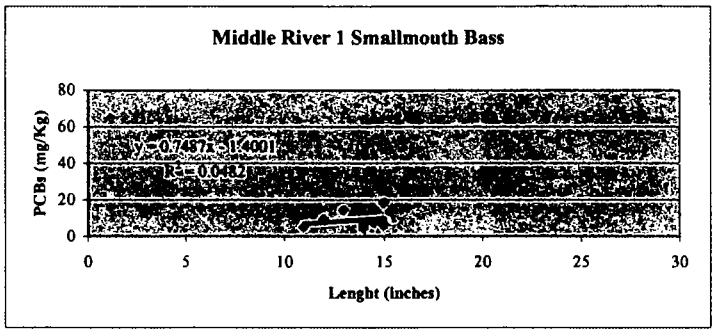
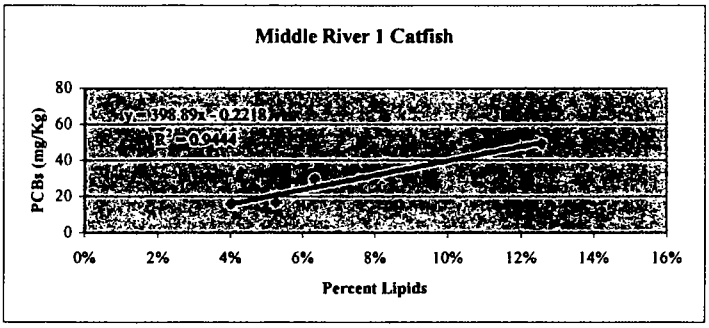
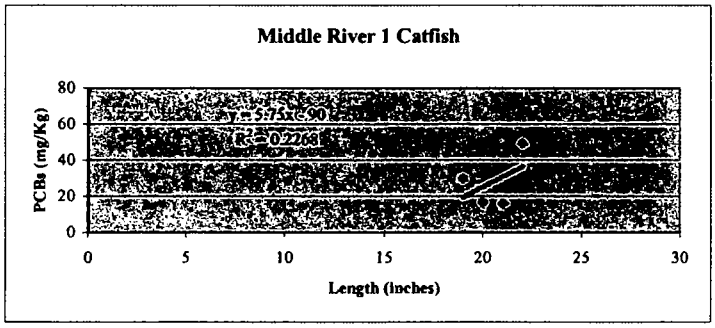


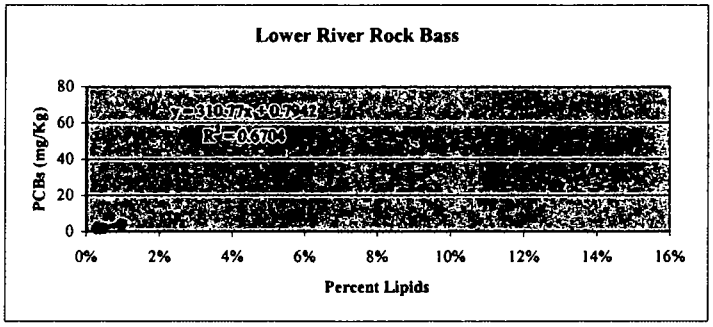
Chart 7
Other Reaches Linear Regression of Selected Fish Species

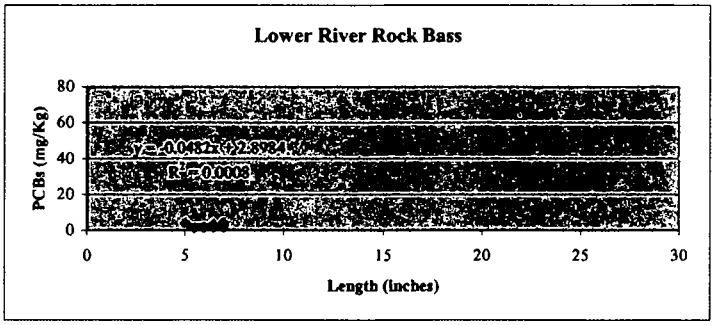


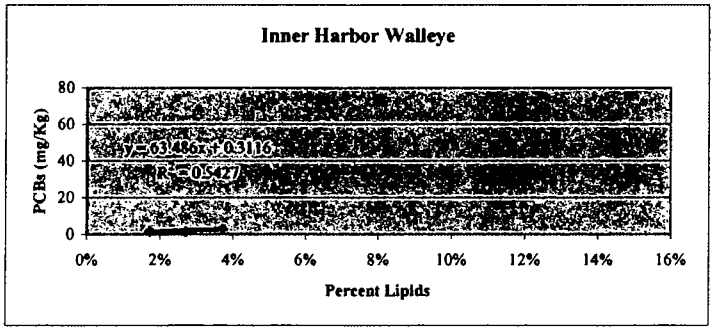


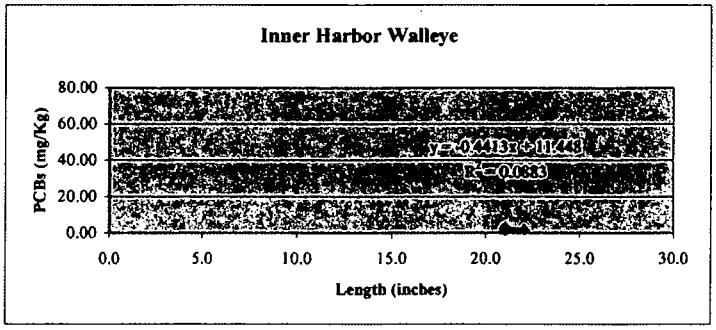












Appendix 4

ProUCL Documentation

UPPER RIVER 1

	General UCL Statistics for Full Data Sets	
User Selected Options	Upper River 1	
From File	M:\Sheboygan River\5_Post-Remediation\2_Sampling Results\5_Fish Monitoring\Baseline Stats\UR1\UR1 Fish.	
Full Precision	OFF	
Confidence Coefficient	95%	
Number of Bootstrap Operations	2000	

A. Carp

General Statistics

Number of Valid Observations	16	Number of Distinct Observations	16

Raw Statistics		Log-transformed Statistics	
Minimum	1.63	Minimum of Log Data	0.489
Maximum	73.1	Maximum of Log Data	4.292
Mean	25.88	Mean of log Data	2.784
Median	23	SD of log Data	1.154
SD	21.44		
Coefficient of Variation	0.829		
Skewness	0.789		

Relevant UCL Statistics

Normal Distribution Test		Lognormal Distribution Test	
Shapiro Wilk Test Statistic	0.912	Shapiro Wilk Test Statistic	0.927
Shapiro Wilk Critical Value	0.887	Shapiro Wilk Critical Value	0.887
Data appear Normal at 5% Significance Level		Data appear Lognormal at 5% Significance Level	
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	35.28	95% H-UCL	75.78
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	71.19
95% Adjusted-CLT UCL	35.83	97.5% Chebyshev (MVUE) UCL	89.2
95% Modified-t UCL	35.45	99% Chebyshev (MVUE) UCL	124.6

35	**Gamma Distribution Test**						**Data Distribution**					
36	k star (bias corrected)	1.021					**Data appear Normal at 5% Significance Level**					
37	Theta Star	25.34										
	nu star	32.68										
	Approximate Chi Square Value (.05)	20.61					**Nonparametric Statistics**					
40	Adjusted Level of Significance	0.0335					95% CLT UCL	34.7				
41	Adjusted Chi Square Value	19.52					95% Jackknife UCL	35.28				
42							95% Standard Bootstrap UCL	34.41				
43	Anderson-Darling Test Statistic	0.274					95% Bootstrap-t UCL	37.24				
44	Anderson-Darling 5% Critical Value	0.76					95% Hall's Bootstrap UCL	36.3				
45	Kolmogorov-Smirnov Test Statistic	0.159					95% Percentile Bootstrap UCL	34.31				
46	Kolmogorov-Smirnov 5% Critical Value	0.22					95% BCA Bootstrap UCL	35.14				
47	**Data appear Gamma Distributed at 5% Significance Level**						95% Chebyshev(Mean, Sd) UCL	49.24				
48							97.5% Chebyshev(Mean, Sd) UCL	59.35				
49	**Assuming Gamma Distribution**						99% Chebyshev(Mean, Sd) UCL	79.22				
50	95% Approximate Gamma UCL	41.03										
51	95% Adjusted Gamma UCL	43.32										
52												
53	**Potential UCL to Use**						Use 95% Student's-t UCL	35.28				
54												
55												
56	**A. Sucker**											
57												
58	**General Statistics**											
	Number of Valid Observations	8					Number of Distinct Observations	8				
60												
61	**Raw Statistics**						**Log-transformed Statistics**					
62	Minimum	5.74					Minimum of Log Data	1.747				
63	Maximum	20.6					Maximum of Log Data	3.025				
64	Mean	12.42					Mean of log Data	2.443				
65	Median	11.45					SD of log Data	0.429				
66	SD	4.996										
67	Coefficient of Variation	0.402										
68	Skewness	0.331										
69												
70												
71	**Warning: There are only 8 Values in this data**											
72	**Note: It should be noted that even though bootstrap methods may be performed on this data set,**											
73	**the resulting calculations may not be reliable enough to draw conclusions**											
74												
75	**The literature suggests to use bootstrap methods on data sets having more than 10-15 observations.**											
76												
77	**Relevant UCL Statistics**											
78	**Normal Distribution Test**						**Lognormal Distribution Test**					
	Shapiro Wilk Test Statistic	0.966					Shapiro Wilk Test Statistic	0.967				
	Shapiro Wilk Critical Value	0.818					Shapiro Wilk Critical Value	0.818				
81	**Data appear Normal at 5% Significance Level**						**Data appear Lognormal at 5% Significance Level**					
82												

83	**Assuming Normal Distribution**						**Assuming Lognormal Distribution**					
84					95% Student's-t UCL	15.77					95% H-UCL	18.13
85	**95% UCLs (Adjusted for Skewness)**										95% Chebyshev (MVUE) UCL	20.76
					95% Adjusted-CLT UCL	15.55					97.5% Chebyshev (MVUE) UCL	24.36
					95% Modified-t UCL	15.8					99% Chebyshev (MVUE) UCL	31.41
88												
89	**Gamma Distribution Test**						**Data Distribution**					
90					k star (bias corrected)	4.272	**Data appear Normal at 5% Significance Level**					
91					Theta Star	2.908						
92					nu star	68.35						
93					Approximate Chi Square Value (.05)	50.32	**Nonparametric Statistics**					
94					Adjusted Level of Significance	0.0195					95% CLT UCL	15.33
95					Adjusted Chi Square Value	46.43					95% Jackknife UCL	15.77
96											95% Standard Bootstrap UCL	15.15
97					Anderson-Darling Test Statistic	0.194					95% Bootstrap-t UCL	16.23
98					Anderson-Darling 5% Critical Value	0.718					95% Hall's Bootstrap UCL	15.74
99					Kolmogorov-Smirnov Test Statistic	0.161					95% Percentile Bootstrap UCL	15.15
100					Kolmogorov-Smirnov 5% Critical Value	0.295					95% BCA Bootstrap UCL	15.48
101	**Data appear Gamma Distributed at 5% Significance Level**										95% Chebyshev(Mean, Sd) UCL	20.12
102											97.5% Chebyshev(Mean, Sd) UCL	23.45
103	**Assuming Gamma Distribution**										99% Chebyshev(Mean, Sd) UCL	30
104					95% Approximate Gamma UCL	16.87						
105					95% Adjusted Gamma UCL	18.29						
106												
	Potential UCL to Use										Use 95% Student's-t UCL	15.77
108												
109												
110	J. Sucker											
111												
112							**General Statistics**					
113					Number of Valid Observations	8					Number of Distinct Observations	8
114												
115	**Raw Statistics**						**Log-transformed Statistics**					
116					Minimum	1.99					Minimum of Log Data	0.688
117					Maximum	9.71					Maximum of Log Data	2.273
118					Mean	6.014					Mean of log Data	1.66
119					Median	6.295					SD of log Data	0.6
120					SD	2.852						
121					Coefficient of Variation	0.474						
122					Skewness	-0.312						
123												
124												
125	**Warning: There are only 8 Values in this data**											
126	**Note: It should be noted that even though bootstrap methods may be performed on this data set,**											
	the resulting calculations may not be reliable enough to draw conclusions											
129	**The literature suggests to use bootstrap methods on data sets having more than 10-15 observations.**											
130												

	A	B	C	D	E	F	G	H	I	J	K	L
131	**Relevant UCL Statistics**											
132	**Normal Distribution Test**						**Lognormal Distribution Test**					
133					Shapiro Wilk Test Statistic	0.938					Shapiro Wilk Test Statistic	0.864
					Shapiro Wilk Critical Value	0.818					Shapiro Wilk Critical Value	0.818
	Data appear Normal at 5% Significance Level						**Data appear Lognormal at 5% Significance Level**					
136												
137	**Assuming Normal Distribution**						**Assuming Lognormal Distribution**					
138					95% Student's-t UCL	7.924					95% H-UCL	11.2
139	**95% UCLs (Adjusted for Skewness)**										95% Chebyshev (MVUE) UCL	11.9
140					95% Adjusted-CLT UCL	7.554					97.5% Chebyshev (MVUE) UCL	14.39
141					95% Modified-t UCL	7.906					99% Chebyshev (MVUE) UCL	19.29
142												
143	**Gamma Distribution Test**						**Data Distribution**					
144					k star (bias corrected)	2.516	**Data appear Normal at 5% Significance Level**					
145					Theta Star	2.39						
146					nu star	40.26						
147					Approximate Chi Square Value (.05)	26.72	**Nonparametric Statistics**					
148					Adjusted Level of Significance	0.0195					95% CLT UCL	7.673
149					Adjusted Chi Square Value	23.97					95% Jackknife UCL	7.924
150											95% Standard Bootstrap UCL	7.558
151					Anderson-Darling Test Statistic	0.438					95% Bootstrap-t UCL	7.849
152					Anderson-Darling 5% Critical Value	0.719					95% Hall's Bootstrap UCL	7.512
153					Kolmogorov-Smirnov Test Statistic	0.201					95% Percentile Bootstrap UCL	7.506
154					Kolmogorov-Smirnov 5% Critical Value	0.295					95% BCA Bootstrap UCL	7.413
	Data appear Gamma Distributed at 5% Significance Level										95% Chebyshev(Mean, Sd) UCL	10.41
156											97.5% Chebyshev(Mean, Sd) UCL	12.31
157	**Assuming Gamma Distribution**										99% Chebyshev(Mean, Sd) UCL	16.05
158					95% Approximate Gamma UCL	9.061						
159					95% Adjusted Gamma UCL	10.1						
160												
161	**Potential UCL to Use**										Use 95% Student's-t UCL	7.924
162												
163												
164	**SM Bass**											
165												
166	**General Statistics**											
167					Number of Valid Observations	8					Number of Distinct Observations	8
168												
169	**Raw Statistics**						**Log-transformed Statistics**					
170					Minimum	4.09					Minimum of Log Data	1.409
171					Maximum	22.2					Maximum of Log Data	3.1
172					Mean	12.96					Mean of log Data	2.397
173					Median	11.9					SD of log Data	0.64
174					SD	7.281						
					Coefficient of Variation	0.562						
					Skewness	0.163						
177												
178												

	A	B	C	D	E	F	G	H	I	J	K	L
179	Warning: There are only 8 Values in this data											
180	Note: It should be noted that even though bootstrap methods may be performed on this data set,											
181	the resulting calculations may not be reliable enough to draw conclusions											
	The literature suggests to use bootstrap methods on data sets having more than 10-15 observations.											
184												
185	Relevant UCL Statistics											
186	Normal Distribution Test						Lognormal Distribution Test					
187	Shapiro Wilk Test Statistic	0.888					Shapiro Wilk Test Statistic	0.909				
188	Shapiro Wilk Critical Value	0.818					Shapiro Wilk Critical Value	0.818				
189	Data appear Normal at 5% Significance Level						Data appear Lognormal at 5% Significance Level					
190												
191	Assuming Normal Distribution						Assuming Lognormal Distribution					
192	95% Student's-t UCL	17.83					95% H-UCL	25.38				
193	95% UCLs (Adjusted for Skewness)						95% Chebyshev (MVUE) UCL	26.22				
194	95% Adjusted-CLT UCL	17.35					97.5% Chebyshev (MVUE) UCL	31.9				
195	95% Modified-t UCL	17.86					99% Chebyshev (MVUE) UCL	43.04				
196												
197	Gamma Distribution Test						Data Distribution					
198	k star (bias corrected)	2.084					Data appear Normal at 5% Significance Level					
199	Theta Star	6.217										
200	nu star	33.34										
201	Approximate Chi Square Value (.05)	21.14					Nonparametric Statistics					
202	Adjusted Level of Significance	0.0195					95% CLT UCL	17.19				
	Adjusted Chi Square Value	18.72					95% Jackknife UCL	17.83				
204							95% Standard Bootstrap UCL	16.95				
205	Anderson-Darling Test Statistic	0.41					95% Bootstrap-t UCL	18.01				
206	Anderson-Darling 5% Critical Value	0.721					95% Hall's Bootstrap UCL	16.22				
207	Kolmogorov-Smirnov Test Statistic	0.19					95% Percentile Bootstrap UCL	16.83				
208	Kolmogorov-Smirnov 5% Critical Value	0.296					95% BCA Bootstrap UCL	17.21				
209	Data appear Gamma Distributed at 5% Significance Level						95% Chebyshev(Mean, Sd) UCL	24.18				
210							97.5% Chebyshev(Mean, Sd) UCL	29.03				
211	Assuming Gamma Distribution						99% Chebyshev(Mean, Sd) UCL	38.57				
212	95% Approximate Gamma UCL	20.44										
213	95% Adjusted Gamma UCL	23.08										
214												
215	Potential UCL to Use						Use 95% Student's-t UCL	17.83				
216												
217												

	A	B	C	D	E	F	G	H	I	J	K	L
218	R. Bass											
219												
220	General Statistics											
	Number of Valid Observations					8	Number of Distinct Observations					8
223	Raw Statistics						Log-transformed Statistics					
224	Minimum					1.22	Minimum of Log Data					0.199
225	Maximum					16.8	Maximum of Log Data					2.821
226	Mean					6.944	Mean of log Data					1.648
227	Median					6.175	SD of log Data					0.897
228	SD					5.011						
229	Coefficient of Variation					0.722						
230	Skewness					0.985						
231												
232												
233	Warning: There are only 8 Values in this data											
234	Note: It should be noted that even though bootstrap methods may be performed on this data set,											
235	the resulting calculations may not be reliable enough to draw conclusions											
236												
237	The literature suggests to use bootstrap methods on data sets having more than 10-15 observations.											
238												
239	Relevant UCL Statistics											
240	Normal Distribution Test						Lognormal Distribution Test					
241	Shapiro Wilk Test Statistic					0.92	Shapiro Wilk Test Statistic					0.908
	Shapiro Wilk Critical Value					0.818	Shapiro Wilk Critical Value					0.818
243	Data appear Normal at 5% Significance Level						Data appear Lognormal at 5% Significance Level					
244												
245	Assuming Normal Distribution						Assuming Lognormal Distribution					
246	95% Student's-t UCL					10.3	95% H-UCL					22.82
247	95% UCLs (Adjusted for Skewness)						95% Chebyshev (MVUE) UCL					17.59
248	95% Adjusted-CLT UCL					10.52	97.5% Chebyshev (MVUE) UCL					22.05
249	95% Modified-t UCL					10.4	99% Chebyshev (MVUE) UCL					30.8
250												

251	**Gamma Distribution Test**						**Data Distribution**					
252	k star (bias corrected)	1.256					**Data appear Normal at 5% Significance Level**					
253	Theta Star	5.528										
	nu star	20.1										
	Approximate Chi Square Value (.05)	10.92					**Nonparametric Statistics**					
256	Adjusted Level of Significance	0.0195					95% CLT UCL	9.858				
257	Adjusted Chi Square Value	9.262					95% Jackknife UCL	10.3				
258							95% Standard Bootstrap UCL	9.619				
259	Anderson-Darling Test Statistic	0.309					95% Bootstrap-t UCL	11.4				
260	Anderson-Darling 5% Critical Value	0.725					95% Hall's Bootstrap UCL	16.87				
261	Kolmogorov-Smirnov Test Statistic	0.209					95% Percentile Bootstrap UCL	9.888				
262	Kolmogorov-Smirnov 5% Critical Value	0.298					95% BCA Bootstrap UCL	10.06				
263	**Data appear Gamma Distributed at 5% Significance Level**						95% Chebyshev(Mean, Sd) UCL	14.67				
264							97.5% Chebyshev(Mean, Sd) UCL	18.01				
265	**Assuming Gamma Distribution**						99% Chebyshev(Mean, Sd) UCL	24.57				
266	95% Approximate Gamma UCL	12.78										
267	95% Adjusted Gamma UCL	15.07										
268												
269	**Potential UCL to Use**						Use 95% Student's-t UCL	10.3				
270												
271												
272	**LN Dace**											
273												
274	**General Statistics**											
	Number of Valid Observations	6					Number of Distinct Observations	6				
276												
277	**Raw Statistics**						**Log-transformed Statistics**					
278	Minimum	1.72					Minimum of Log Data	0.542				
279	Maximum	17.6					Maximum of Log Data	2.868				
280	Mean	7.67					Mean of log Data	1.685				
281	Median	4.2					SD of log Data	0.926				
282	SD	6.855										
283	Coefficient of Variation	0.894										
284	Skewness	0.921										
285												
286												
287	**Warning: A sample size of 'n' = 6 may not adequate enough to compute meaningful and reliable test statistics and estimates!**											
288												
289	***It is suggested to collect at least 8 to 10 observations using these statistical methods!***											
290	**If possible compute and collect Data Quality Objectives (DQO) based sample size and analytical results.**											
291												
292												

	A	B	C	D	E	F	G	H	I	J	K	L
293	Warning: There are only 6 Values in this data											
294	Note: It should be noted that even though bootstrap methods may be performed on this data set,											
295	the resulting calculations may not be reliable enough to draw conclusions											
	The literature suggests to use bootstrap methods on data sets having more than 10-15 observations.											
298												
299	Relevant UCL Statistics											
300	Normal Distribution Test						Lognormal Distribution Test					
301	Shapiro Wilk Test Statistic	0.8					Shapiro Wilk Test Statistic	0.905				
302	Shapiro Wilk Critical Value	0.788					Shapiro Wilk Critical Value	0.788				
303	Data appear Normal at 5% Significance Level						Data appear Lognormal at 5% Significance Level					
304												
305	Assuming Normal Distribution						Assuming Lognormal Distribution					
306	95% Student's-t UCL	13.31					95% H-UCL	40.82				
307	95% UCLs (Adjusted for Skewness)						95% Chebyshev (MVUE) UCL	19.91				
308	95% Adjusted-CLT UCL	13.4					97.5% Chebyshev (MVUE) UCL	25.24				
309	95% Modified-t UCL	13.48					99% Chebyshev (MVUE) UCL	35.72				
310												
311	Gamma Distribution Test						Data Distribution					
312	k star (bias corrected)	0.894					Data appear Normal at 5% Significance Level					
313	Theta Star	8.583										
314	nu star	10.72										
315	Approximate Chi Square Value (.05)	4.399					Nonparametric Statistics					
316	Adjusted Level of Significance	0.0122					95% CLT UCL	12.27				
	Adjusted Chi Square Value	3.062					95% Jackknife UCL	13.31				
318							95% Standard Bootstrap UCL	11.83				
319	Anderson-Darling Test Statistic	0.491					95% Bootstrap-t UCL	29.03				
320	Anderson-Darling 5% Critical Value	0.707					95% Hall's Bootstrap UCL	54.01				
321	Kolmogorov-Smirnov Test Statistic	0.246					95% Percentile Bootstrap UCL	12.14				
322	Kolmogorov-Smirnov 5% Critical Value	0.337					95% BCA Bootstrap UCL	12.3				
323	Data appear Gamma Distributed at 5% Significance Level						95% Chebyshev(Mean, Sd) UCL	19.87				
324							97.5% Chebyshev(Mean, Sd) UCL	25.15				
325	Assuming Gamma Distribution						99% Chebyshev(Mean, Sd) UCL	35.51				
326	95% Approximate Gamma UCL	18.7										
327	95% Adjusted Gamma UCL	26.86										
328												
329	Potential UCL to Use						Use 95% Student's-t UCL	13.31				

UPPER RIVER 2

	General UCL Statistics for Full Data Sets	
User Selected Options	Upper River 2	
From File	M:\Sheboygan River\5_Post-Remediation\2_Sampling Results\5_Fish Monitoring\Baseline Stats\UR2\Fish UR 2	
Full Precision	OFF	
Confidence Coefficient	95%	
Number of Bootstrap Operations	2000	

A. Carp

General Statistics

Number of Valid Observations	16	Number of Distinct Observations	16

Raw Statistics		Log-transformed Statistics	
Minimum	1.02	Minimum of Log Data	0.0198
Maximum	47.7	Maximum of Log Data	3.865
Mean	14.72	Mean of log Data	2.076
Median	8.535	SD of log Data	1.24
SD	15.04		
Coefficient of Variation	1.022		
Skewness	1.041		

Relevant UCL Statistics

Normal Distribution Test		Lognormal Distribution Test	
Shapiro Wilk Test Statistic	0.836	Shapiro Wilk Test Statistic	0.949
Shapiro Wilk Critical Value	0.887	Shapiro Wilk Critical Value	0.887
Data not Normal at 5% Significance Level		Data appear Lognormal at 5% Significance Level	
Assuming Normal Distribution		**Assuming Lognormal Distribution**	
95% Student's-t UCL	21.31	95% H-UCL	46.32
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	40.28
95% Adjusted-CLT UCL	21.95	97.5% Chebyshev (MVUE) UCL	50.81
95% Modified-t UCL	21.47	99% Chebyshev (MVUE) UCL	71.49

	A	B	C	D	E	F	G	H	I	J	K	L
35	**Gamma Distribution Test**						**Data Distribution**					
36	k star (bias corrected)					0.811	**Data appear Gamma Distributed at 5% Significance Level**					
37	Theta Star					18.14						
	nu star					25.96						
	Approximate Chi Square Value (.05)					15.35	**Nonparametric Statistics**					
40	Adjusted Level of Significance					0.0335	95% CLT UCL					20.9
41	Adjusted Chi Square Value					14.42	95% Jackknife UCL					21.31
42							95% Standard Bootstrap UCL					20.69
43	Anderson-Darling Test Statistic					0.385	95% Bootstrap-t UCL					23.25
44	Anderson-Darling 5% Critical Value					0.766	95% Hall's Bootstrap UCL					21.45
45	Kolmogorov-Smirnov Test Statistic					0.139	95% Percentile Bootstrap UCL					20.85
46	Kolmogorov-Smirnov 5% Critical Value					0.222	95% BCA Bootstrap UCL					21.25
47	**Data appear Gamma Distributed at 5% Significance Level**						95% Chebyshev(Mean, Sd) UCL					31.11
48							97.5% Chebyshev(Mean, Sd) UCL					38.2
49	**Assuming Gamma Distribution**						99% Chebyshev(Mean, Sd) UCL					52.13
50	95% Approximate Gamma UCL					24.89						
51	95% Adjusted Gamma UCL					26.49						
52												
53	**Potential UCL to Use**						Use 95% Approximate Gamma UCL					24.89
54												
55												
56	**A. Sucker**											
57												
58	**General Statistics**											
	Number of Valid Observations					8	Number of Distinct Observations					8
60												
61	**Raw Statistics**						**Log-transformed Statistics**					
62	Minimum					3.95	Minimum of Log Data					1.374
63	Maximum					16.6	Maximum of Log Data					2.809
64	Mean					8.913	Mean of log Data					2.089
65	Median					8.48	SD of log Data					0.481
66	SD					4.189						
67	Coefficient of Variation					0.47						
68	Skewness					0.73						
69												
70												
71	**Warning: There are only 8 Values in this data**											
72	**Note: It should be noted that even though bootstrap methods may be performed on this data set,**											
73	**the resulting calculations may not be reliable enough to draw conclusions**											
74												
75	**The literature suggests to use bootstrap methods on data sets having more than 10-15 observations.**											
76												
77	**Relevant UCL Statistics**											
78	**Normal Distribution Test**						**Lognormal Distribution Test**					
	Shapiro Wilk Test Statistic					0.952	Shapiro Wilk Test Statistic					0.982
	Shapiro Wilk Critical Value					0.818	Shapiro Wilk Critical Value					0.818
81	**Data appear Normal at 5% Significance Level**						**Data appear Lognormal at 5% Significance Level**					
82												

83	**Assuming Normal Distribution**						**Assuming Lognormal Distribution**					
84					95% Student's-t UCL	11.72					95% H-UCL	13.82
85	**95% UCLs (Adjusted for Skewness)**										95% Chebyshev (MVUE) UCL	15.6
					95% Adjusted-CLT UCL	11.76					97.5% Chebyshev (MVUE) UCL	18.48
					95% Modified-t UCL	11.78					99% Chebyshev (MVUE) UCL	24.16
88												
89	**Gamma Distribution Test**						**Data Distribution**					
90					k star (bias corrected)	3.354	**Data appear Normal at 5% Significance Level**					
91					Theta Star	2.658						
92					nu star	53.66						
93					Approximate Chi Square Value (.05)	37.83	**Nonparametric Statistics**					
94					Adjusted Level of Significance	0.0195					95% CLT UCL	11.35
95					Adjusted Chi Square Value	34.49					95% Jackknife UCL	11.72
96											95% Standard Bootstrap UCL	11.26
97					Anderson-Darling Test Statistic	0.16					95% Bootstrap-t UCL	12.2
98					Anderson-Darling 5% Critical Value	0.719					95% Hall's Bootstrap UCL	12.3
99					Kolmogorov-Smirnov Test Statistic	0.138					95% Percentile Bootstrap UCL	11.25
100					Kolmogorov-Smirnov 5% Critical Value	0.295					95% BCA Bootstrap UCL	11.52
101	**Data appear Gamma Distributed at 5% Significance Level**										95% Chebyshev(Mean, Sd) UCL	15.37
102											97.5% Chebyshev(Mean, Sd) UCL	18.16
103	**Assuming Gamma Distribution**										99% Chebyshev(Mean, Sd) UCL	23.65
104					95% Approximate Gamma UCL	12.64						
105					95% Adjusted Gamma UCL	13.86						
106												
	Potential UCL to Use										Use 95% Student's-t UCL	11.72
108												
109												
110	J. Sucker											
111												
112	**General Statistics**											
113					Number of Valid Observations	8					Number of Distinct Observations	8
114												
115	**Raw Statistics**						**Log-transformed Statistics**					
116					Minimum	3.73					Minimum of Log Data	1.316
117					Maximum	11.5					Maximum of Log Data	2.442
118					Mean	6.82					Mean of log Data	1.838
119					Median	5.835					SD of log Data	0.43
120					SD	2.961						
121					Coefficient of Variation	0.434						
122					Skewness	0.584						
123												
124												
125	**Warning: There are only 8 Values in this data**											
126	**Note: It should be noted that even though bootstrap methods may be performed on this data set,**											
	the resulting calculations may not be reliable enough to draw conclusions											
129	**The literature suggests to use bootstrap methods on data sets having more than 10-15 observations.**											
130												

	A	B	C	D	E	F	G	H	I	J	K	L
131	**Relevant UCL Statistics**											
132	**Normal Distribution Test**						**Lognormal Distribution Test**					
133	Shapiro Wilk Test Statistic					0.881	Shapiro Wilk Test Statistic					0.907
	Shapiro Wilk Critical Value					0.818	Shapiro Wilk Critical Value					0.818
	Data appear Normal at 5% Significance Level						**Data appear Lognormal at 5% Significance Level**					
136												
137	**Assuming Normal Distribution**						**Assuming Lognormal Distribution**					
138	95% Student's-t UCL					8.803	95% H-UCL					9.929
139	**95% UCLs (Adjusted for Skewness)**						95% Chebyshev (MVUE) UCL					11.37
140	95% Adjusted-CLT UCL					8.773	97.5% Chebyshev (MVUE) UCL					13.34
141	95% Modified-t UCL					8.839	99% Chebyshev (MVUE) UCL					17.21
142												
143	**Gamma Distribution Test**						**Data Distribution**					
144	k star (bias corrected)					4.013	**Data appear Normal at 5% Significance Level**					
145	Theta Star					1.7						
146	nu star					64.2						
147	Approximate Chi Square Value (.05)					46.77	**Nonparametric Statistics**					
148	Adjusted Level of Significance					0.0195	95% CLT UCL					8.542
149	Adjusted Chi Square Value					43.03	95% Jackknife UCL					8.803
150							95% Standard Bootstrap UCL					8.404
151	Anderson-Darling Test Statistic					0.447	95% Bootstrap-t UCL					9.368
152	Anderson-Darling 5% Critical Value					0.718	95% Hall's Bootstrap UCL					8.224
153	Kolmogorov-Smirnov Test Statistic					0.205	95% Percentile Bootstrap UCL					8.493
154	Kolmogorov-Smirnov 5% Critical Value					0.295	95% BCA Bootstrap UCL					8.675
	Data appear Gamma Distributed at 5% Significance Level						95% Chebyshev(Mean, Sd) UCL					11.38
156							97.5% Chebyshev(Mean, Sd) UCL					13.36
157	**Assuming Gamma Distribution**						99% Chebyshev(Mean, Sd) UCL					17.24
158	95% Approximate Gamma UCL					9.362						
159	95% Adjusted Gamma UCL					10.18						
160												
161	**Potential UCL to Use**						Use 95% Student's-t UCL					8.803
162												
163												
164	**SM Bass**											
165												
166	**General Statistics**											
167	Number of Valid Observations					8	Number of Distinct Observations					8
168												
169	**Raw Statistics**						**Log-transformed Statistics**					
170	Minimum					3.12	Minimum of Log Data					1.138
171	Maximum					33.5	Maximum of Log Data					3.512
172	Mean					14.52	Mean of log Data					2.4
173	Median					12	SD of log Data					0.82
174	SD					11.11						
	Coefficient of Variation					0.765						
	Skewness					0.965						
177												
178												

	A	B	C	D	E	F	G	H	I	J	K	L
179	Warning: There are only 8 Values in this data											
180	Note: It should be noted that even though bootstrap methods may be performed on this data set,											
181	the resulting calculations may not be reliable enough to draw conclusions											
	The literature suggests to use bootstrap methods on data sets having more than 10-15 observations.											
184												
185	Relevant UCL Statistics											
186	Normal Distribution Test						Lognormal Distribution Test					
187	Shapiro Wilk Test Statistic	0.874					Shapiro Wilk Test Statistic	0.965				
188	Shapiro Wilk Critical Value	0.818					Shapiro Wilk Critical Value	0.818				
189	Data appear Normal at 5% Significance Level						Data appear Lognormal at 5% Significance Level					
190												
191	Assuming Normal Distribution						Assuming Lognormal Distribution					
192	95% Student's-t UCL	21.96					95% H-UCL	39.11				
193	95% UCLs (Adjusted for Skewness)						95% Chebyshev (MVUE) UCL	33.57				
194	95% Adjusted-CLT UCL	22.42					97.5% Chebyshev (MVUE) UCL	41.74				
195	95% Modified-t UCL	22.19					99% Chebyshev (MVUE) UCL	57.81				
196												
197	Gamma Distribution Test						Data Distribution					
198	k star (bias corrected)	1.312					Data appear Normal at 5% Significance Level					
199	Theta Star	11.07										
200	nu star	20.99										
201	Approximate Chi Square Value (.05)	11.59					Nonparametric Statistics					
202	Adjusted Level of Significance	0.0195					95% CLT UCL	20.98				
	Adjusted Chi Square Value	9.866					95% Jackknife UCL	21.96				
204							95% Standard Bootstrap UCL	20.67				
205	Anderson-Darling Test Statistic	0.245					95% Bootstrap-t UCL	28.89				
206	Anderson-Darling 5% Critical Value	0.724					95% Hall's Bootstrap UCL	61.72				
207	Kolmogorov-Smirnov Test Statistic	0.156					95% Percentile Bootstrap UCL	20.68				
208	Kolmogorov-Smirnov 5% Critical Value	0.298					95% BCA Bootstrap UCL	22.01				
209	Data appear Gamma Distributed at 5% Significance Level						95% Chebyshev(Mean, Sd) UCL	31.65				
210							97.5% Chebyshev(Mean, Sd) UCL	39.06				
211	Assuming Gamma Distribution						99% Chebyshev(Mean, Sd) UCL	53.61				
212	95% Approximate Gamma UCL	26.31										
213	95% Adjusted Gamma UCL	30.9										
214												
215	Potential UCL to Use						Use 95% Student's-t UCL	21.96				
216												
217												
218	R. Bass											
219												

	A	B	C	D	E	F	G	H	I	J	K	L
220	**General Statistics**											
221	Number of Valid Observations					8	Number of Distinct Observations					8
222												
	Raw Statistics						**Log-transformed Statistics**					
	Minimum					0.739	Minimum of Log Data					-0.302
225	Maximum					8.72	Maximum of Log Data					2.166
226	Mean					4.266	Mean of log Data					1.17
227	Median					4.01	SD of log Data					0.887
228	SD					2.935						
229	Coefficient of Variation					0.688						
230	Skewness					0.544						
231												
232												
233	**Warning: There are only 8 Values in this data**											
234	**Note: It should be noted that even though bootstrap methods may be performed on this data set,**											
235	**the resulting calculations may not be reliable enough to draw conclusions**											
236												
237	**The literature suggests to use bootstrap methods on data sets having more than 10-15 observations.**											
238												
239	**Relevant UCL Statistics**											
240	**Normal Distribution Test**						**Lognormal Distribution Test**					
241	Shapiro Wilk Test Statistic					0.898	Shapiro Wilk Test Statistic					0.891
242	Shapiro Wilk Critical Value					0.818	Shapiro Wilk Critical Value					0.818
243	**Data appear Normal at 5% Significance Level**						**Data appear Lognormal at 5% Significance Level**					
245	**Assuming Normal Distribution**						**Assuming Lognormal Distribution**					
246	95% Student's-t UCL					6.232	95% H-UCL					13.76
247	**95% UCLs (Adjusted for Skewness)**						95% Chebyshev (MVUE) UCL					10.76
248	95% Adjusted-CLT UCL					6.186	97.5% Chebyshev (MVUE) UCL					13.47
249	95% Modified-t UCL					6.265	99% Chebyshev (MVUE) UCL					18.8
250												
251	**Gamma Distribution Test**						**Data Distribution**					
252	k star (bias corrected)					1.291	**Data appear Normal at 5% Significance Level**					
253	Theta Star					3.304						
254	nu star					20.66						
255	Approximate Chi Square Value (.05)					11.34	**Nonparametric Statistics**					
256	Adjusted Level of Significance					0.0195	95% CLT UCL					5.973
257	Adjusted Chi Square Value					9.642	95% Jackknife UCL					6.232
258							95% Standard Bootstrap UCL					5.847
259	Anderson-Darling Test Statistic					0.372	95% Bootstrap-t UCL					7.051
260	Anderson-Darling 5% Critical Value					0.725	95% Hall's Bootstrap UCL					8.329
261	Kolmogorov-Smirnov Test Statistic					0.171	95% Percentile Bootstrap UCL					5.936
262	Kolmogorov-Smirnov 5% Critical Value					0.298	95% BCA Bootstrap UCL					6.027
263	**Data appear Gamma Distributed at 5% Significance Level**						95% Chebyshev(Mean, Sd) UCL					8.789
							97.5% Chebyshev(Mean, Sd) UCL					10.75
	Assuming Gamma Distribution						99% Chebyshev(Mean, Sd) UCL					14.59
266	95% Approximate Gamma UCL					7.773						
267	95% Adjusted Gamma UCL					9.142						
268												
269	**Potential UCL to Use**						Use 95% Student's-t UCL					6.232

MIDDLE RIVER 1

	General UCL Statistics for Full Data Sets	
User Selected Options		
From File	M:\Sheboygan\4 Post-Remediation\3 PR Monitoring Activities\3 Fish Monitoring\Fish Sampling Data\Baseline\Ba	
Full Precision	OFF	
Confidence Coefficient	95%	
Number of Bootstrap Operations	2000	

A. Carp

General Statistics

Number of Valid Observations	8	Number of Distinct Observations	8

Raw Statistics		Log-transformed Statistics	
Minimum	1.28	Minimum of Log Data	0.247
Maximum	22.8	Maximum of Log Data	3.127
Mean	4.44	Mean of log Data	0.889
Median	1.885	SD of log Data	0.934
SD	7.431		
Coefficient of Variation	1.674		
Skewness	2.81		

Warning: There are only 8 Values in this data

Note: It should be noted that even though bootstrap methods may be performed on this data set, the resulting calculations may not be reliable enough to draw conclusions

The literature suggests to use bootstrap methods on data sets having more than 10-15 observations.

Relevant UCL Statistics

Normal Distribution Test		Lognormal Distribution Test	
Shapiro Wilk Test Statistic	0.473	Shapiro Wilk Test Statistic	0.66
Shapiro Wilk Critical Value	0.818	Shapiro Wilk Critical Value	0.818
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution		**Assuming Lognormal Distribution**	
95% Student's-t UCL	9.417	95% H-UCL	11.93
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	8.676
95% Adjusted-CLT UCL	11.55	97.5% Chebyshev (MVUE) UCL	10.91
95% Modified-t UCL	9.852	99% Chebyshev (MVUE) UCL	15.3
Gamma Distribution Test		**Data Distribution**	
k star (bias corrected)	0.686	Data do not follow a Discernable Distribution (0.05)	
Theta Star	6.474		
nu star	10.97		
Approximate Chi Square Value (.05)	4.558	**Nonparametric Statistics**	
Adjusted Level of Significance	0.0195	95% CLT UCL	8.761
Adjusted Chi Square Value	3.571	95% Jackknife UCL	9.417
		95% Standard Bootstrap UCL	8.431
Anderson-Darling Test Statistic	1.685	95% Bootstrap-t UCL	62.44

51				Anderson-Darling 5% Critical Value	0.737					95% Hall's Bootstrap UCL	40.14	
52				Kolmogorov-Smirnov Test Statistic	0.437					95% Percentile Bootstrap UCL	9.643	
53				Kolmogorov-Smirnov 5% Critical Value	0.302					95% BCA Bootstrap UCL	12.25	
				Data not Gamma Distributed at 5% Significance Level						95% Chebyshev(Mean, Sd) UCL	15.89	
										97.5% Chebyshev(Mean, Sd) UCL	20.85	
56				Assuming Gamma Distribution						99% Chebyshev(Mean, Sd) UCL	30.58	
57				95% Approximate Gamma UCL	10.69							
58				95% Adjusted Gamma UCL	13.64							
59												
60				Potential UCL to Use						Use 95% Chebyshev (Mean, Sd) UCL	15.89	
61												
62	A. Sucker											
63												
64				General Statistics								
65				Number of Valid Observations	7					Number of Distinct Observations	7	
66												
67				Raw Statistics						Log-transformed Statistics		
68				Minimum	3.24					Minimum of Log Data	1.176	
69				Maximum	19.9					Maximum of Log Data	2.991	
70				Mean	8.766					Mean of log Data	1.984	
71				Median	8.79					SD of log Data	0.663	
72				SD	5.861							
73				Coefficient of Variation	0.669							
74				Skewness	1.209							
77				Warning: A sample size of 'n' = 7 may not adequate enough to compute meaningful and reliable test statistics and estimates!								
78												
79				It is suggested to collect at least 8 to 10 observations using these statistical methods!								
80				If possible compute and collect Data Quality Objectives (DQO) based sample size and analytical results.								
81												
82												
83				Warning: There are only 7 Values in this data								
84				Note: It should be noted that even though bootstrap methods may be performed on this data set,								
85				the resulting calculations may not be reliable enough to draw conclusions								
86												
87				The literature suggests to use bootstrap methods on data sets having more than 10-15 observations.								
88												
89				Relevant UCL Statistics								
90				Normal Distribution Test						Lognormal Distribution Test		
91				Shapiro Wilk Test Statistic	0.881					Shapiro Wilk Test Statistic	0.942	
92				Shapiro Wilk Critical Value	0.803					Shapiro Wilk Critical Value	0.803	
93				Data appear Normal at 5% Significance Level						Data appear Lognormal at 5% Significance Level		
94												
				Assuming Normal Distribution						Assuming Lognormal Distribution		
				95% Student's-t UCL	13.07					95% H-UCL	19.41	
97				95% UCLs (Adjusted for Skewness)						95% Chebyshev (MVUE) UCL	18.35	
98				95% Adjusted-CLT UCL	13.49					97.5% Chebyshev (MVUE) UCL	22.51	
99				95% Modified-t UCL	13.24					99% Chebyshev (MVUE) UCL	30.68	
100												

	A	B	C	D	E	F	G	H	I	J	K	L
101	**Gamma Distribution Test**						**Data Distribution**					
102					k star (bias corrected)	1.713	**Data appear Normal at 5% Significance Level**					
103					Theta Star	5.118						
104					nu star	23.98						
105					Approximate Chi Square Value (.05)	13.83	**Nonparametric Statistics**					
106					Adjusted Level of Significance	0.0158					95% CLT UCL	12.41
107					Adjusted Chi Square Value	11.57					95% Jackknife UCL	13.07
108											95% Standard Bootstrap UCL	12.23
109					Anderson-Darling Test Statistic	0.296					95% Bootstrap-t UCL	14.66
110					Anderson-Darling 5% Critical Value	0.713					95% Hall's Bootstrap UCL	18.95
111					Kolmogorov-Smirnov Test Statistic	0.201					95% Percentile Bootstrap UCL	12.44
112					Kolmogorov-Smirnov 5% Critical Value	0.314					95% BCA Bootstrap UCL	12.88
113	**Data appear Gamma Distributed at 5% Significance Level**										95% Chebyshev(Mean, Sd) UCL	18.42
114											97.5% Chebyshev(Mean, Sd) UCL	22.6
115	**Assuming Gamma Distribution**										99% Chebyshev(Mean, Sd) UCL	30.81
116					95% Approximate Gamma UCL	15.2						
117					95% Adjusted Gamma UCL	18.16						
118												
119	**Potential UCL to Use**										Use 95% Student's-t UCL	13.07
120												
121	**SM Bass**											
122												
123	**General Statistics**											
124					Number of Valid Observations	8					Number of Distinct Observations	8
125												
126	**Raw Statistics**						**Log-transformed Statistics**					
127					Minimum	4.2					Minimum of Log Data	1.435
128					Maximum	18.2					Maximum of Log Data	2.901
129					Mean	8.754					Mean of log Data	2.047
130					Median	6.75					SD of log Data	0.513
131					SD	4.944						
132					Coefficient of Variation	0.565						
133					Skewness	1.259						
134												
135												
136	**Warning: There are only 8 Values in this data**											
137	**Note: It should be noted that even though bootstrap methods may be performed on this data set,**											
138	**the resulting calculations may not be reliable enough to draw conclusions**											
139												
140	**The literature suggests to use bootstrap methods on data sets having more than 10-15 observations.**											
141												
142	**Relevant UCL Statistics**											
143	**Normal Distribution Test**						**Lognormal Distribution Test**					
144					Shapiro Wilk Test Statistic	0.849					Shapiro Wilk Test Statistic	0.934
145					Shapiro Wilk Critical Value	0.818					Shapiro Wilk Critical Value	0.818
146	**Data appear Normal at 5% Significance Level**						**Data appear Lognormal at 5% Significance Level**					
147												
148	**Assuming Normal Distribution**						**Assuming Lognormal Distribution**					
149					95% Student's-t UCL	12.07					95% H-UCL	14.01
150	**95% UCLs (Adjusted for Skewness)**										95% Chebyshev (MVUE) UCL	15.61

151					95% Adjusted-CLT UCL	12.46				97.5% Chebyshev (MVUE) UCL	18.61	
152					95% Modified-t UCL	12.2				99% Chebyshev (MVUE) UCL	24.5	
153												
154					**Gamma Distribution Test**					**Data Distribution**		
					k star (bias corrected)	2.734				**Data appear Normal at 5% Significance Level**		
156					Theta Star	3.202						
157					nu star	43.74						
158					Approximate Chi Square Value (.05)	29.57				**Nonparametric Statistics**		
159					Adjusted Level of Significance	0.0195				95% CLT UCL	11.63	
160					Adjusted Chi Square Value	26.66				95% Jackknife UCL	12.07	
161										95% Standard Bootstrap UCL	11.43	
162					Anderson-Darling Test Statistic	0.401				95% Bootstrap-t UCL	15.8	
163					Anderson-Darling 5% Critical Value	0.719				95% Hall's Bootstrap UCL	26.7	
164					Kolmogorov-Smirnov Test Statistic	0.21				95% Percentile Bootstrap UCL	11.63	
165					Kolmogorov-Smirnov 5% Critical Value	0.295				95% BCA Bootstrap UCL	12.14	
166					**Data appear Gamma Distributed at 5% Significance Level**					95% Chebyshev(Mean, Sd) UCL	16.37	
167										97.5% Chebyshev(Mean, Sd) UCL	19.67	
168					**Assuming Gamma Distribution**					99% Chebyshev(Mean, Sd) UCL	26.15	
169					95% Approximate Gamma UCL	12.95						
170					95% Adjusted Gamma UCL	14.36						
171												
172					**Potential UCL to Use**					Use 95% Student's-t UCL	12.07	
173												
174	**LN Dace**											
					General Statistics							
177					Number of Valid Observations	6				Number of Distinct Observations	6	
178												
179					**Raw Statistics**					**Log-transformed Statistics**		
180					Minimum	7.08				Minimum of Log Data	1.957	
181					Maximum	17.8				Maximum of Log Data	2.879	
182					Mean	9.468				Mean of log Data	2.188	
183					Median	7.955				SD of log Data	0.351	
184					SD	4.145						
185					Coefficient of Variation	0.438						
186					Skewness	2.286						
187												
188												
189	**Warning: A sample size of 'n' = 6 may not adequate enough to compute meaningful and reliable test statistics and estimates!**											
190												
191	**It is suggested to collect at least 8 to 10 observations using these statistical methods!**											
192	**If possible compute and collect Data Quality Objectives (DQO) based sample size and analytical results.**											
193												
194												
	Warning: There are only 6 Values in this data											
	Note: It should be noted that even though bootstrap methods may be performed on this data set,											
197	**the resulting calculations may not be reliable enough to draw conclusions**											
198												
199	**The literature suggests to use bootstrap methods on data sets having more than 10-15 observations.**											
200												

201	**Relevant UCL Statistics**											
202	**Normal Distribution Test**						**Lognormal Distribution Test**					
203	Shapiro Wilk Test Statistic	0.65					Shapiro Wilk Test Statistic	0.721				
	Shapiro Wilk Critical Value	0.788					Shapiro Wilk Critical Value	0.788				
	Data not Normal at 5% Significance Level						**Data not Lognormal at 5% Significance Level**					
206												
207	**Assuming Normal Distribution**						**Assuming Lognormal Distribution**					
208	95% Student's-t UCL	12.88					95% H-UCL	13.64				
209	**95% UCLs (Adjusted for Skewness)**						95% Chebyshev (MVUE) UCL	15.24				
210	95% Adjusted-CLT UCL	13.94					97.5% Chebyshev (MVUE) UCL	17.77				
211	95% Modified-t UCL	13.14					99% Chebyshev (MVUE) UCL	22.75				
212												
213	**Gamma Distribution Test**						**Data Distribution**					
214	k star (bias corrected)	4.386					**Data do not follow a Discernable Distribution (0.05)**					
215	Theta Star	2.159										
216	nu star	52.63										
217	Approximate Chi Square Value (.05)	36.97					**Nonparametric Statistics**					
218	Adjusted Level of Significance	0.0122					95% CLT UCL	12.25				
219	Adjusted Chi Square Value	32.29					95% Jackknife UCL	12.88				
220							95% Standard Bootstrap UCL	12.03				
221	Anderson-Darling Test Statistic	0.941					95% Bootstrap-t UCL	23.62				
222	Anderson-Darling 5% Critical Value	0.698					95% Hall's Bootstrap UCL	24.98				
223	Kolmogorov-Smirnov Test Statistic	0.356					95% Percentile Bootstrap UCL	12.6				
224	Kolmogorov-Smirnov 5% Critical Value	0.333					95% BCA Bootstrap UCL	13.08				
	Data not Gamma Distributed at 5% Significance Level						95% Chebyshev(Mean, Sd) UCL	16.85				
							97.5% Chebyshev(Mean, Sd) UCL	20.04				
227	**Assuming Gamma Distribution**						99% Chebyshev(Mean, Sd) UCL	26.31				
228	95% Approximate Gamma UCL	13.48										
229	95% Adjusted Gamma UCL	15.43										
230												
231	**Potential UCL to Use**						Use 95% Student's-t UCL	12.88				
232							or 95% Modified-t UCL	13.14				
233												
234	**Walleye**											
235												
236	**General Statistics**											
237	Number of Valid Observations	8					Number of Distinct Observations	8				
238												
239	**Raw Statistics**						**Log-transformed Statistics**					
240	Minimum	5.58					Minimum of Log Data	1.719				
241	Maximum	16.8					Maximum of Log Data	2.821				
242	Mean	11.13					Mean of log Data	2.326				
243	Median	11.06					SD of log Data	0.449				
244	SD	4.629										
	Coefficient of Variation	0.416										
	Skewness	0.0235										
247												
248												
249	**Warning: There are only 8 Values in this data**											
250	**Note: It should be noted that even though bootstrap methods may be performed on this data set,**											

	A	B	C	D	E	F	G	H	I	J	K	L
251	the resulting calculations may not be reliable enough to draw conclusions											
252												
253	The literature suggests to use bootstrap methods on data sets having more than 10-15 observations.											
	Relevant UCL Statistics											
256	Normal Distribution Test						Lognormal Distribution Test					
257	Shapiro Wilk Test Statistic	0.874					Shapiro Wilk Test Statistic	0.876				
258	Shapiro Wilk Critical Value	0.818					Shapiro Wilk Critical Value	0.818				
259	Data appear Normal at 5% Significance Level						Data appear Lognormal at 5% Significance Level					
260												
261	Assuming Normal Distribution						Assuming Lognormal Distribution					
262	95% Student's-t UCL	14.23					95% H-UCL	16.64				
263	95% UCLs (Adjusted for Skewness)						95% Chebyshev (MVUE) UCL	18.96				
264	95% Adjusted-CLT UCL	13.84					97.5% Chebyshev (MVUE) UCL	22.33				
265	95% Modified-t UCL	14.23					99% Chebyshev (MVUE) UCL	28.95				
266												
267	Gamma Distribution Test						Data Distribution					
268	k star (bias corrected)	3.906					Data appear Normal at 5% Significance Level					
269	Theta Star	2.85										
270	nu star	62.49										
271	Approximate Chi Square Value (.05)	45.31					Nonparametric Statistics					
272	Adjusted Level of Significance	0.0195					95% CLT UCL	13.82				
273	Adjusted Chi Square Value	41.63					95% Jackknife UCL	14.23				
274							95% Standard Bootstrap UCL	13.63				
	Anderson-Darling Test Statistic	0.515					95% Bootstrap-t UCL	14.36				
27	Anderson-Darling 5% Critical Value	0.718					95% Hall's Bootstrap UCL	13.23				
277	Kolmogorov-Smirnov Test Statistic	0.247					95% Percentile Bootstrap UCL	13.72				
278	Kolmogorov-Smirnov 5% Critical Value	0.295					95% BCA Bootstrap UCL	13.75				
279	Data appear Gamma Distributed at 5% Significance Level						95% Chebyshev(Mean, Sd) UCL	18.26				
280							97.5% Chebyshev(Mean, Sd) UCL	21.35				
281	Assuming Gamma Distribution						99% Chebyshev(Mean, Sd) UCL	27.41				
282	95% Approximate Gamma UCL	15.35										
283	95% Adjusted Gamma UCL	16.71										
284												
285	Potential UCL to Use						Use 95% Student's-t UCL	14.23				
286												
287	Catfish											
288												
289	General Statistics											
290	Number of Valid Observations	4					Number of Distinct Observations	4				
291												
292												
293	Warning: This data set only has 4 observations!											
294	Data set is too small to compute reliable and meaningful statistics and estimates!											
	The data set for variable Catfish was not processed!											
297	It is suggested to collect at least 8 to 10 observations before using these statistical methods!											
298	If possible, compute and collect Data Quality Objectives (DQO) based sample size and analytical results.											
299												
300												

MIDDLE RIVER 2

	General UCL Statistics for Full Data Sets	
User Selected Options	Middle River 2	
From File	M:\Sheboygan River\5_Post-Remediation\2_Sampling Results\5_Fish Monitoring\Baseline Stats\MR2\MR 2 Fish	
Full Precision	OFF	
Confidence Coefficient	95%	
Number of Bootstrap Operations	2000	

A. Sucker

General Statistics

Number of Valid Observations	8	Number of Distinct Observations	8

Raw Statistics		Log-transformed Statistics	
Minimum	0.925	Minimum of Log Data	-0.078
Maximum	6.98	Maximum of Log Data	1.943
Mean	3.962	Mean of log Data	1.229
Median	3.495	SD of log Data	0.639
SD	2.012		
Coefficient of Variation	0.508		
Skewness	0.218		

Warning: There are only 8 Values in this data

Note: It should be noted that even though bootstrap methods may be performed on this data set, the resulting calculations may not be reliable enough to draw conclusions

The literature suggests to use bootstrap methods on data sets having more than 10-15 observations.

Relevant UCL Statistics

Normal Distribution Test		Lognormal Distribution Test	
Shapiro Wilk Test Statistic	0.957	Shapiro Wilk Test Statistic	0.901
Shapiro Wilk Critical Value	0.818	Shapiro Wilk Critical Value	0.818
Data appear Normal at 5% Significance Level		**Data appear Lognormal at 5% Significance Level**	
Assuming Normal Distribution		**Assuming Lognormal Distribution**	
95% Student's-t UCL	5.309	95% H-UCL	7.878
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	8.143
95% Adjusted-CLT UCL	5.19	97.5% Chebyshev (MVUE) UCL	9.905
95% Modified-t UCL	5.319	99% Chebyshev (MVUE) UCL	13.36
Gamma Distribution Test		**Data Distribution**	
k star (bias corrected)	2.296	**Data appear Normal at 5% Significance Level**	
Theta Star	1.726		
nu star	36.74		
Approximate Chi Square Value (.05)	23.86	**Nonparametric Statistics**	
Adjusted Level of Significance	0.0195	95% CLT UCL	5.132
Adjusted Chi Square Value	21.27	95% Jackknife UCL	5.309
		95% Standard Bootstrap UCL	5.039
Anderson-Darling Test Statistic	0.286	95% Bootstrap-t UCL	5.547

51				Anderson-Darling 5% Critical Value	0.72					95% Hall's Bootstrap UCL	5.976	
52				Kolmogorov-Smirnov Test Statistic	0.177					95% Percentile Bootstrap UCL	5.06	
53				Kolmogorov-Smirnov 5% Critical Value	0.296					95% BCA Bootstrap UCL	5.1	
54				Data appear Gamma Distributed at 5% Significance Level						95% Chebyshev(Mean, Sd) UCL	7.062	
										97.5% Chebyshev(Mean, Sd) UCL	8.404	
56				Assuming Gamma Distribution						99% Chebyshev(Mean, Sd) UCL	11.04	
57				95% Approximate Gamma UCL	6.099							
58				95% Adjusted Gamma UCL	6.841							
59												
60				Potential UCL to Use						Use 95% Student's-t UCL	5.309	
61												
62												
63	J. Sucker											
64												
65				General Statistics								
66				Number of Valid Observations	7					Number of Distinct Observations	7	
67												
68				Raw Statistics						Log-transformed Statistics		
69				Minimum	0.98					Minimum of Log Data	-0.0202	
70				Maximum	2.03					Maximum of Log Data	0.708	
71				Mean	1.369					Mean of log Data	0.282	
72				Median	1.2					SD of log Data	0.269	
73				SD	0.39							
74				Coefficient of Variation	0.285							
				Skewness	0.979							
76												
77												
78				Warning: A sample size of 'n' = 7 may not adequate enough to compute meaningful and reliable test statistics and estimates!								
79												
80				It is suggested to collect at least 8 to 10 observations using these statistical methods!								
81				If possible compute and collect Data Quality Objectives (DQO) based sample size and analytical results.								
82												
83												
84				Warning: There are only 7 Values in this data								
85				Note: It should be noted that even though bootstrap methods may be performed on this data set,								
86				the resulting calculations may not be reliable enough to draw conclusions								
87												
88				The literature suggests to use bootstrap methods on data sets having more than 10-15 observations.								
89												
90				Relevant UCL Statistics								
91				Normal Distribution Test						Lognormal Distribution Test		
92				Shapiro Wilk Test Statistic	0.886					Shapiro Wilk Test Statistic	0.921	
93				Shapiro Wilk Critical Value	0.803					Shapiro Wilk Critical Value	0.803	
94				Data appear Normal at 5% Significance Level						Data appear Lognormal at 5% Significance Level		
				Assuming Normal Distribution						Assuming Lognormal Distribution		
97				95% Student's-t UCL	1.655					95% H-UCL	1.736	
98				95% UCLs (Adjusted for Skewness)						95% Chebyshev (MVUE) UCL	1.973	
99				95% Adjusted-CLT UCL	1.669					97.5% Chebyshev (MVUE) UCL	2.236	
100				95% Modified-t UCL	1.664					99% Chebyshev (MVUE) UCL	2.751	

101												
102			Gamma Distribution Test					Data Distribution				
103					k star (bias corrected)	9.068		Data appear Normal at 5% Significance Level				
					Theta Star	0.151						
					nu star	127						
106					Approximate Chi Square Value (.05)	101.9		Nonparametric Statistics				
107					Adjusted Level of Significance	0.0158					95% CLT UCL	1.611
108					Adjusted Chi Square Value	95.17					95% Jackknife UCL	1.655
109											95% Standard Bootstrap UCL	1.59
110					Anderson-Darling Test Statistic	0.388					95% Bootstrap-t UCL	1.971
111					Anderson-Darling 5% Critical Value	0.707					95% Hall's Bootstrap UCL	1.973
112					Kolmogorov-Smirnov Test Statistic	0.236					95% Percentile Bootstrap UCL	1.606
113					Kolmogorov-Smirnov 5% Critical Value	0.312					95% BCA Bootstrap UCL	1.63
114			Data appear Gamma Distributed at 5% Significance Level								95% Chebyshev(Mean, Sd) UCL	2.011
115											97.5% Chebyshev(Mean, Sd) UCL	2.288
116			Assuming Gamma Distribution								99% Chebyshev(Mean, Sd) UCL	2.834
117					95% Approximate Gamma UCL	1.705						
118					95% Adjusted Gamma UCL	1.826						
119												
120			Potential UCL to Use								Use 95% Student's-t UCL	1.655
121												
122												
123	SM Bass											
124												
					General Statistics							
126					Number of Valid Observations	8					Number of Distinct Observations	8
127												
128			Raw Statistics					Log-transformed Statistics				
129					Minimum	2.64					Minimum of Log Data	0.971
130					Maximum	7.65					Maximum of Log Data	2.035
131					Mean	4.303					Mean of log Data	1.406
132					Median	3.85					SD of log Data	0.337
133					SD	1.607						
134					Coefficient of Variation	0.374						
135					Skewness	1.479						
136												
137												
138					Warning: There are only 8 Values in this data							
139					Note: It should be noted that even though bootstrap methods may be performed on this data set,							
140					the resulting calculations may not be reliable enough to draw conclusions							
141												
142					The literature suggests to use bootstrap methods on data sets having more than 10-15 observations.							
143												
144					Relevant UCL Statistics							
			Normal Distribution Test					Lognormal Distribution Test				
					Shapiro Wilk Test Statistic	0.869					Shapiro Wilk Test Statistic	0.952
147					Shapiro Wilk Critical Value	0.818					Shapiro Wilk Critical Value	0.818
148			Data appear Normal at 5% Significance Level					Data appear Lognormal at 5% Significance Level				
149												
150			Assuming Normal Distribution					Assuming Lognormal Distribution				

151				95% Student's-t UCL	5.379					95% H-UCL	5.646	
152				**95% UCLs (Adjusted for Skewness)**						95% Chebyshev (MVUE) UCL	6.523	
153				95% Adjusted-CLT UCL	5.555					97.5% Chebyshev (MVUE) UCL	7.49	
				95% Modified-t UCL	5.429					99% Chebyshev (MVUE) UCL	9.389	
156				**Gamma Distribution Test**						**Data Distribution**		
157				k star (bias corrected)	6.103					**Data appear Normal at 5% Significance Level**		
158				Theta Star	0.705							
159				nu star	97.65							
160				Approximate Chi Square Value (.05)	75.86					**Nonparametric Statistics**		
161				Adjusted Level of Significance	0.0195					95% CLT UCL	5.237	
162				Adjusted Chi Square Value	71.01					95% Jackknife UCL	5.379	
163										95% Standard Bootstrap UCL	5.212	
164				Anderson-Darling Test Statistic	0.336					95% Bootstrap-t UCL	6.593	
165				Anderson-Darling 5% Critical Value	0.715					95% Hall's Bootstrap UCL	11	
166				Kolmogorov-Smirnov Test Statistic	0.214					95% Percentile Bootstrap UCL	5.249	
167				Kolmogorov-Smirnov 5% Critical Value	0.294					95% BCA Bootstrap UCL	5.536	
168				**Data appear Gamma Distributed at 5% Significance Level**						95% Chebyshev(Mean, Sd) UCL	6.779	
169										97.5% Chebyshev(Mean, Sd) UCL	7.851	
170				**Assuming Gamma Distribution**						99% Chebyshev(Mean, Sd) UCL	9.956	
171				95% Approximate Gamma UCL	5.539							
172				95% Adjusted Gamma UCL	5.917							
173												
174				**Potential UCL to Use**						Use 95% Student's-t UCL	5.379	
176												
177	**R. Bass**											
178												
179						**General Statistics**							
180				Number of Valid Observations	8					Number of Distinct Observations	8	
181												
182				**Raw Statistics**						**Log-transformed Statistics**		
183				Minimum	1.42					Minimum of Log Data	0.351	
184				Maximum	3.7					Maximum of Log Data	1.308	
185				Mean	2.486					Mean of log Data	0.866	
186				Median	2.235					SD of log Data	0.32	
187				SD	0.79							
188				Coefficient of Variation	0.318							
189				Skewness	0.487							
190												
191												
192						**Warning: There are only 8 Values in this data**							
193						**Note: It should be noted that even though bootstrap methods may be performed on this data set,**							
194						**the resulting calculations may not be reliable enough to draw conclusions**							
						The literature suggests to use bootstrap methods on data sets having more than 10-15 observations.							
197												
198						**Relevant UCL Statistics**							
199				**Normal Distribution Test**						**Lognormal Distribution Test**		
200				Shapiro Wilk Test Statistic	0.935					Shapiro Wilk Test Statistic	0.959	

201					Shapiro Wilk Critical Value	0.818					Shapiro Wilk Critical Value	0.818
202					Data appear Normal at 5% Significance Level						Data appear Lognormal at 5% Significance Level	
203												
					Assuming Normal Distribution						Assuming Lognormal Distribution	
					95% Student's-t UCL	3.016					95% H-UCL	3.222
206					95% UCLs (Adjusted for Skewness)						95% Chebyshev (MVUE) UCL	3.72
207					95% Adjusted-CLT UCL	2.997					97.5% Chebyshev (MVUE) UCL	4.254
208					95% Modified-t UCL	3.024					99% Chebyshev (MVUE) UCL	5.302
209												
210					Gamma Distribution Test						Data Distribution	
211					k star (bias corrected)	7.217					Data appear Normal at 5% Significance Level	
212					Theta Star	0.345						
213					nu star	115.5						
214					Approximate Chi Square Value (.05)	91.66					Nonparametric Statistics	
215					Adjusted Level of Significance	0.0195					95% CLT UCL	2.946
216					Adjusted Chi Square Value	86.3					95% Jackknife UCL	3.016
217											95% Standard Bootstrap UCL	2.913
218					Anderson-Darling Test Statistic	0.27					95% Bootstrap-t UCL	3.167
219					Anderson-Darling 5% Critical Value	0.715					95% Hall's Bootstrap UCL	3.254
220					Kolmogorov-Smirnov Test Statistic	0.206					95% Percentile Bootstrap UCL	2.939
221					Kolmogorov-Smirnov 5% Critical Value	0.294					95% BCA Bootstrap UCL	2.924
222					Data appear Gamma Distributed at 5% Significance Level						95% Chebyshev(Mean, Sd) UCL	3.704
223											97.5% Chebyshev(Mean, Sd) UCL	4.231
224					Assuming Gamma Distribution						99% Chebyshev(Mean, Sd) UCL	5.266
					95% Approximate Gamma UCL	3.132						
226					95% Adjusted Gamma UCL	3.327						
227												
228					Potential UCL to Use						Use 95% Student's-t UCL	3.016
229												
230												
231	LN Dace											
232												
233						General Statistics						
234					Number of Valid Observations	8					Number of Distinct Observations	8
235												
236					Raw Statistics						Log-transformed Statistics	
237					Minimum	4.86					Minimum of Log Data	1.581
238					Maximum	11					Maximum of Log Data	2.398
239					Mean	8.508					Mean of log Data	2.106
240					Median	9.035					SD of log Data	0.292
241					SD	2.248						
242					Coefficient of Variation	0.264						
243					Skewness	-0.507						
244												
					Warning: There are only 8 Values in this data							
247					Note: It should be noted that even though bootstrap methods may be performed on this data set,							
248					the resulting calculations may not be reliable enough to draw conclusions							
249												
250					The literature suggests to use bootstrap methods on data sets having more than 10-15 observations.							

251												
252	**Relevant UCL Statistics**											
253	**Normal Distribution Test**						**Lognormal Distribution Test**					
	Shapiro Wilk Test Statistic	0.93					Shapiro Wilk Test Statistic	0.906				
	Shapiro Wilk Critical Value	0.818					Shapiro Wilk Critical Value	0.818				
256	**Data appear Normal at 5% Significance Level**						**Data appear Lognormal at 5% Significance Level**					
257												
258	**Assuming Normal Distribution**						**Assuming Lognormal Distribution**					
259	95% Student's-t UCL	10.01					95% H-UCL	10.75				
260	**95% UCLs (Adjusted for Skewness)**						95% Chebyshev (MVUE) UCL	12.38				
261	95% Adjusted-CLT UCL	9.663					97.5% Chebyshev (MVUE) UCL	14.05				
262	95% Modified-t UCL	9.99					99% Chebyshev (MVUE) UCL	17.32				
263												
264	**Gamma Distribution Test**						**Data Distribution**					
265	k star (bias corrected)	9.158					**Data appear Normal at 5% Significance Level**					
266	Theta Star	0.929										
267	nu star	146.5										
268	Approximate Chi Square Value (.05)	119.6					**Nonparametric Statistics**					
269	Adjusted Level of Significance	0.0195					95% CLT UCL	9.815				
270	Adjusted Chi Square Value	113.4					95% Jackknife UCL	10.01				
271							95% Standard Bootstrap UCL	9.747				
272	Anderson-Darling Test Statistic	0.349					95% Bootstrap-t UCL	9.877				
273	Anderson-Darling 5% Critical Value	0.716					95% Hall's Bootstrap UCL	9.591				
274	Kolmogorov-Smirnov Test Statistic	0.211					95% Percentile Bootstrap UCL	9.734				
	Kolmogorov-Smirnov 5% Critical Value	0.294					95% BCA Bootstrap UCL	9.598				
276	**Data appear Gamma Distributed at 5% Significance Level**						95% Chebyshev(Mean, Sd) UCL	11.97				
277							97.5% Chebyshev(Mean, Sd) UCL	13.47				
278	**Assuming Gamma Distribution**						99% Chebyshev(Mean, Sd) UCL	16.42				
279	95% Approximate Gamma UCL	10.43										
280	95% Adjusted Gamma UCL	10.99										
281												
282	**Potential UCL to Use**						Use 95% Student's-t UCL	10.01				
283												
284												
285	Catfish											
286												
287	**General Statistics**											
288	Number of Valid Observations	4					Number of Distinct Observations	4				
289												
290												
291	**Warning: This data set only has 4 observations!**											
292	**Data set is too small to compute reliable and meaningful statistics and estimates!**											
293	**The data set for variable Catfish was not processed!**											
294												
	It is suggested to collect at least 8 to 10 observations before using these statistical methods!											
	If possible, compute and collect Data Quality Objectives (DQO) based sample size and analytical results.											
297												
298												

LOWER RIVER

General UCL Statistics for Full Data Sets		
User Selected Options	Lower River	
From File	M:\Sheboygan River\5_Post-Remediation\2_Sampling Results\5_Fish Monitoring\Baseline Stats\LR\LR Fish no	
Full Precision	OFF	
Confidence Coefficient	95%	
Number of Bootstrap Operations	2000	

A. Carp

General Statistics

Number of Valid Observations	8	Number of Distinct Observations	8

Raw Statistics		Log-transformed Statistics	
Minimum	0.458	Minimum of Log Data	-0.781
Maximum	44.9	Maximum of Log Data	3.804
Mean	10.99	Mean of log Data	1.456
Median	2.285	SD of log Data	1.532
SD	15.37		
Coefficient of Variation	1.399		
Skewness	1.865		

Warning: There are only 8 Values in this data

Note: It should be noted that even though bootstrap methods may be performed on this data set, the resulting calculations may not be reliable enough to draw conclusions

The literature suggests to use bootstrap methods on data sets having more than 10-15 observations.

Relevant UCL Statistics

Normal Distribution Test		Lognormal Distribution Test	
Shapiro Wilk Test Statistic	0.721	Shapiro Wilk Test Statistic	0.911
Shapiro Wilk Critical Value	0.818	Shapiro Wilk Critical Value	0.818
Data not Normal at 5% Significance Level		**Data appear Lognormal at 5% Significance Level**	
Assuming Normal Distribution		**Assuming Lognormal Distribution**	
95% Student's-t UCL	21.28	95% H-UCL	227
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	36.71
95% Adjusted-CLT UCL	23.75	97.5% Chebyshev (MVUE) UCL	47.88
95% Modified-t UCL	21.88	99% Chebyshev (MVUE) UCL	69.83
Gamma Distribution Test		**Data Distribution**	
k star (bias corrected)	0.489	**Data Follow Appr. Gamma Distribution at 5% Significance Level**	
Theta Star	22.46		
nu star	7.826		
Approximate Chi Square Value (.05)	2.634	**Nonparametric Statistics**	
Adjusted Level of Significance	0.0195	95% CLT UCL	19.92
Adjusted Chi Square Value	1.936	95% Jackknife UCL	21.28

49											95% Standard Bootstrap UCL	19.19
50				Anderson-Darling Test Statistic	0.619						95% Bootstrap-t UCL	33.88
51				Anderson-Darling 5% Critical Value	0.752						95% Hall's Bootstrap UCL	45.35
				Kolmogorov-Smirnov Test Statistic	0.32						95% Percentile Bootstrap UCL	20.1
				Kolmogorov-Smirnov 5% Critical Value	0.306						95% BCA Bootstrap UCL	23.04
54				Data follow Appr. Gamma Distribution at 5% Significance Level							95% Chebyshev(Mean, Sd) UCL	34.67
55											97.5% Chebyshev(Mean, Sd) UCL	44.92
56				Assuming Gamma Distribution							99% Chebyshev(Mean, Sd) UCL	65.06
57				95% Approximate Gamma UCL	32.63							
58				95% Adjusted Gamma UCL	44.4							
59												
60				Potential UCL to Use							Use 95% Approximate Gamma UCL	32.63
61												
62												
63	A. Sucker											
64												
65						General Statistics						
66				Number of Valid Observations	2						Number of Distinct Observations	2
67												
68												
69						Warning: This data set only has 2 observations!							
70						Data set is too small to compute reliable and meaningful statistics and estimates!						
71						The data set for variable A. Sucker was not processed!						
72												
						It is suggested to collect at least 8 to 10 observations before using these statistical methods!						
74						If possible, compute and collect Data Quality Objectives (DQO) based sample size and analytical results.						
75												
76	J. Sucker											
77												
78						General Statistics						
79				Number of Valid Observations	5						Number of Distinct Observations	5
80												
81				Raw Statistics							Log-transformed Statistics	
82				Minimum	0.587						Minimum of Log Data	-0.533
83				Maximum	1.64						Maximum of Log Data	0.495
84				Mean	1.035						Mean of log Data	-0.0342
85				Median	0.967						SD of log Data	0.417
86				SD	0.427							
87				Coefficient of Variation	0.413							
88				Skewness	0.587							
89												
90												
91						Warning: A sample size of 'n' = 5 may not adequate enough to compute meaningful and reliable test statistics and estimates!						
92												
						It is suggested to collect at least 8 to 10 observations using these statistical methods!						
94						If possible compute and collect Data Quality Objectives (DQO) based sample size and analytical results.						
95												
96												
97						Warning: There are only 5 Values in this data						
98						Note: It should be noted that even though bootstrap methods may be performed on this data set,						

99	the resulting calculations may not be reliable enough to draw conclusions											
100												
101	The literature suggests to use bootstrap methods on data sets having more than 10-15 observations.											
	Relevant UCL Statistics											
104	Normal Distribution Test						Lognormal Distribution Test					
105			Shapiro Wilk Test Statistic	0.953					Shapiro Wilk Test Statistic	0.972		
106			Shapiro Wilk Critical Value	0.762					Shapiro Wilk Critical Value	0.762		
107	Data appear Normal at 5% Significance Level						Data appear Lognormal at 5% Significance Level					
108												
109	Assuming Normal Distribution						Assuming Lognormal Distribution					
110			95% Student's-t UCL	1.443					95% H-UCL	1.85		
111	95% UCLs (Adjusted for Skewness)								95% Chebyshev (MVUE) UCL	1.871		
112			95% Adjusted-CLT UCL	1.403					97.5% Chebyshev (MVUE) UCL	2.233		
113			95% Modified-t UCL	1.451					99% Chebyshev (MVUE) UCL	2.944		
114												
115	Gamma Distribution Test						Data Distribution					
116			k star (bias corrected)	3.099			Data appear Normal at 5% Significance Level					
117			Theta Star	0.334								
118			nu star	30.99								
119			Approximate Chi Square Value (.05)	19.27			Nonparametric Statistics					
120			Adjusted Level of Significance	0.0086					95% CLT UCL	1.35		
121			Adjusted Chi Square Value	15.37					95% Jackknife UCL	1.443		
122									95% Standard Bootstrap UCL	1.315		
			Anderson-Darling Test Statistic	0.214					95% Bootstrap-t UCL	1.653		
12			Anderson-Darling 5% Critical Value	0.68					95% Hall's Bootstrap UCL	1.634		
125			Kolmogorov-Smirnov Test Statistic	0.197					95% Percentile Bootstrap UCL	1.307		
126			Kolmogorov-Smirnov 5% Critical Value	0.358					95% BCA Bootstrap UCL	1.357		
127	Data appear Gamma Distributed at 5% Significance Level								95% Chebyshev(Mean, Sd) UCL	1.868		
128									97.5% Chebyshev(Mean, Sd) UCL	2.229		
129	Assuming Gamma Distribution								99% Chebyshev(Mean, Sd) UCL	2.937		
130			95% Approximate Gamma UCL	1.665								
131			95% Adjusted Gamma UCL	2.087								
132												
133	Potential UCL to Use								Use 95% Student's-t UCL	1.443		
134												
135	SM Bass											
136												

137	**General Statistics**											
138	Number of Valid Observations				8		Number of Distinct Observations					8
139												
	Raw Statistics						**Log-transformed Statistics**					
	Minimum				1.78		Minimum of Log Data					0.577
142	Maximum				10.9		Maximum of Log Data					2.389
143	Mean				5.77		Mean of log Data					1.596
144	Median				5.72		SD of log Data					0.644
145	SD				3.051							
146	Coefficient of Variation				0.529							
147	Skewness				0.225							
148												
149												
150	**Warning: There are only 8 Values in this data**											
151	**Note: It should be noted that even though bootstrap methods may be performed on this data set,**											
152	**the resulting calculations may not be reliable enough to draw conclusions**											
153												
154	**The literature suggests to use bootstrap methods on data sets having more than 10-15 observations.**											
155												
156	**Relevant UCL Statistics**											
157	**Normal Distribution Test**						**Lognormal Distribution Test**					
158	Shapiro Wilk Test Statistic				0.96		Shapiro Wilk Test Statistic					0.898
159	Shapiro Wilk Critical Value				0.818		Shapiro Wilk Critical Value					0.818
160	**Data appear Normal at 5% Significance Level**						**Data appear Lognormal at 5% Significance Level**					
	Assuming Normal Distribution						**Assuming Lognormal Distribution**					
163	95% Student's-t UCL				7.813		95% H-UCL					11.49
164	**95% UCLs (Adjusted for Skewness)**						95% Chebyshev (MVUE) UCL					11.84
165	95% Adjusted-CLT UCL				7.636		97.5% Chebyshev (MVUE) UCL					14.41
166	95% Modified-t UCL				7.828		99% Chebyshev (MVUE) UCL					19.45
167												
168	**Gamma Distribution Test**						**Data Distribution**					
169	k star (bias corrected)				2.181		**Data appear Normal at 5% Significance Level**					
170	Theta Star				2.646							
171	nu star				34.89							
172	Approximate Chi Square Value (.05)				22.38		**Nonparametric Statistics**					
173	Adjusted Level of Significance				0.0195		95% CLT UCL					7.544
174	Adjusted Chi Square Value				19.88		95% Jackknife UCL					7.813
175							95% Standard Bootstrap UCL					7.421
176	Anderson-Darling Test Statistic				0.342		95% Bootstrap-t UCL					7.822
177	Anderson-Darling 5% Critical Value				0.72		95% Hall's Bootstrap UCL					7.83
178	Kolmogorov-Smirnov Test Statistic				0.199		95% Percentile Bootstrap UCL					7.393
179	Kolmogorov-Smirnov 5% Critical Value				0.296		95% BCA Bootstrap UCL					7.434
180	**Data appear Gamma Distributed at 5% Significance Level**						95% Chebyshev(Mean, Sd) UCL					10.47
							97.5% Chebyshev(Mean, Sd) UCL					12.51
	Assuming Gamma Distribution						99% Chebyshev(Mean, Sd) UCL					16.5
183	95% Approximate Gamma UCL				8.996							
184	95% Adjusted Gamma UCL				10.13							
185												
186	**Potential UCL to Use**						Use 95% Student's-t UCL					7.813

R. Bass

General Statistics

Number of Valid Observations	9	Number of Distinct Observations	9

Raw Statistics		Log-transformed Statistics	
Minimum	1.4	Minimum of Log Data	0.336
Maximum	4.27	Maximum of Log Data	1.452
Mean	2.596	Mean of log Data	0.873
Median	1.95	SD of log Data	0.424
SD	1.113		
Coefficient of Variation	0.429		
Skewness	0.557		

Warning: There are only 9 Values in this data

Note: It should be noted that even though bootstrap methods may be performed on this data set, the resulting calculations may not be reliable enough to draw conclusions

The literature suggests to use bootstrap methods on data sets having more than 10-15 observations.

Relevant UCL Statistics

Normal Distribution Test		Lognormal Distribution Test	
Shapiro Wilk Test Statistic	0.861	Shapiro Wilk Test Statistic	0.889
Shapiro Wilk Critical Value	0.829	Shapiro Wilk Critical Value	0.829
Data appear Normal at 5% Significance Level		**Data appear Lognormal at 5% Significance Level**	
Assuming Normal Distribution		**Assuming Lognormal Distribution**	
95% Student's-t UCL	3.285	95% H-UCL	3.621
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	4.206
95% Adjusted-CLT UCL	3.279	97.5% Chebyshev (MVUE) UCL	4.905
95% Modified-t UCL	3.297	99% Chebyshev (MVUE) UCL	6.277
Gamma Distribution Test		**Data Distribution**	
k star (bias corrected)	4.311	**Data appear Normal at 5% Significance Level**	
Theta Star	0.602		
nu star	77.6		
Approximate Chi Square Value (.05)	58.31	**Nonparametric Statistics**	
Adjusted Level of Significance	0.0231	95% CLT UCL	3.206
Adjusted Chi Square Value	54.79	95% Jackknife UCL	3.285
		95% Standard Bootstrap UCL	3.159
Anderson-Darling Test Statistic	0.567	95% Bootstrap-t UCL	3.377
Anderson-Darling 5% Critical Value	0.722	95% Hall's Bootstrap UCL	3.129
Kolmogorov-Smirnov Test Statistic	0.265	95% Percentile Bootstrap UCL	3.17
Kolmogorov-Smirnov 5% Critical Value	0.28	95% BCA Bootstrap UCL	3.176
Data appear Gamma Distributed at 5% Significance Level		95% Chebyshev(Mean, Sd) UCL	4.213
		97.5% Chebyshev(Mean, Sd) UCL	4.912
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	6.287
95% Approximate Gamma UCL	3.454		

	A	B	C	D	E	F	G	H	I	J	K	L
237	95% Adjusted Gamma UCL					3.676						
238												
239	Potential UCL to Use						Use 95% Student's-t UCL					3.285
	atfish											
242												
243	General Statistics											
244	Number of Valid Observations					4	Number of Distinct Observations					4
245												
246												
247	Warning: This data set only has 4 observations!											
248	Data set is too small to compute reliable and meaningful statistics and estimates!											
249	The data set for variable Catfish was not processed!											
250												
251	It is suggested to collect at least 8 to 10 observations before using these statistical methods!											
252	If possible, compute and collect Data Quality Objectives (DQO) based sample size and analytical results.											

INNER HARBOR

	General UCL Statistics for Full Data Sets	
User Selected Options	Inner Harbor	
From File	M:\Sheboygan River\5_Post-Remediation\2_Sampling Results\5_Fish Monitoring\Baseline Stats\IH\IH Fish no o	
Full Precision	OFF	
Confidence Coefficient	95%	
Number of Bootstrap Operations	2000	

A. Carp

General Statistics

Number of Valid Observations	8	Number of Distinct Observations	8

Raw Statistics		Log-transformed Statistics	
Minimum	0.243	Minimum of Log Data	-1.415
Maximum	9.14	Maximum of Log Data	2.213
Mean	3.164	Mean of log Data	0.739
Median	2.38	SD of log Data	1.104
SD	2.812		
Coefficient of Variation	0.889		
Skewness	1.548		

Warning: There are only 8 Values in this data

Note: It should be noted that even though bootstrap methods may be performed on this data set, the resulting calculations may not be reliable enough to draw conclusions

The literature suggests to use bootstrap methods on data sets having more than 10-15 observations.

Relevant UCL Statistics

Normal Distribution Test		Lognormal Distribution Test	
Shapiro Wilk Test Statistic	0.861	Shapiro Wilk Test Statistic	0.936
Shapiro Wilk Critical Value	0.818	Shapiro Wilk Critical Value	0.818
Data appear Normal at 5% Significance Level		**Data appear Lognormal at 5% Significance Level**	
Assuming Normal Distribution		**Assuming Lognormal Distribution**	
95% Student's-t UCL	5.048	95% H-UCL	17.9
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	9.49
95% Adjusted-CLT UCL	5.381	97.5% Chebyshev (MVUE) UCL	12.1
95% Modified-t UCL	5.138	99% Chebyshev (MVUE) UCL	17.21
Gamma Distribution Test		**Data Distribution**	
k star (bias corrected)	0.929	**Data appear Normal at 5% Significance Level**	
Theta Star	3.405		
nu star	14.87		
Approximate Chi Square Value (.05)	7.17	**Nonparametric Statistics**	
Adjusted Level of Significance	0.0195	95% CLT UCL	4.799
Adjusted Chi Square Value	5.872	95% Jackknife UCL	5.048

49											95% Standard Bootstrap UCL	4.685
50					Anderson-Darling Test Statistic	0.219					95% Bootstrap-t UCL	6.647
51					Anderson-Darling 5% Critical Value	0.73					95% Hall's Bootstrap UCL	14.73
52					Kolmogorov-Smirnov Test Statistic	0.181					95% Percentile Bootstrap UCL	4.761
53					Kolmogorov-Smirnov 5% Critical Value	0.3					95% BCA Bootstrap UCL	5.409
54					Data appear Gamma Distributed at 5% Significance Level						95% Chebyshev(Mean, Sd) UCL	7.497
55											97.5% Chebyshev(Mean, Sd) UCL	9.373
56					Assuming Gamma Distribution						99% Chebyshev(Mean, Sd) UCL	13.06
57					95% Approximate Gamma UCL	6.561						
58					95% Adjusted Gamma UCL	8.012						
59												
60					Potential UCL to Use						Use 95% Student's-t UCL	5.048
61												
62	SM Bass											
63												
64					General Statistics							
65					Number of Valid Observations	8					Number of Distinct Observations	8
66												
67					Raw Statistics						Log-transformed Statistics	
68					Minimum	1.44					Minimum of Log Data	0.365
69					Maximum	4.43					Maximum of Log Data	1.488
70					Mean	3.363					Mean of log Data	1.159
71					Median	3.505					SD of log Data	0.376
72					SD	1.035						
73					Coefficient of Variation	0.308						
74					Skewness	-0.824						
75												
76												
77					Warning: There are only 8 Values in this data							
78					Note: It should be noted that even though bootstrap methods may be performed on this data set,							
79					the resulting calculations may not be reliable enough to draw conclusions							
80												
81					The literature suggests to use bootstrap methods on data sets having more than 10-15 observations.							
82												
83					Relevant UCL Statistics							
84					Normal Distribution Test						Lognormal Distribution Test	
85					Shapiro Wilk Test Statistic	0.902					Shapiro Wilk Test Statistic	0.836
86					Shapiro Wilk Critical Value	0.818					Shapiro Wilk Critical Value	0.818
87					Data appear Normal at 5% Significance Level						Data appear Lognormal at 5% Significance Level	
88												

89	**Assuming Normal Distribution**						**Assuming Lognormal Distribution**					
90				95% Student's-t UCL	4.056					95% H-UCL	4.648	
91	**95% UCLs (Adjusted for Skewness)**									95% Chebyshev (MVUE) UCL	5.363	
				95% Adjusted-CLT UCL	3.85					97.5% Chebyshev (MVUE) UCL	6.218	
				95% Modified-t UCL	4.038					99% Chebyshev (MVUE) UCL	7.896	
94												
95	**Gamma Distribution Test**						**Data Distribution**					
96				k star (bias corrected)	6.017		**Data appear Normal at 5% Significance Level**					
97				Theta Star	0.559							
98				nu star	96.27							
99				Approximate Chi Square Value (.05)	74.64		**Nonparametric Statistics**					
100				Adjusted Level of Significance	0.0195					95% CLT UCL	3.964	
101				Adjusted Chi Square Value	69.83					95% Jackknife UCL	4.056	
102										95% Standard Bootstrap UCL	3.922	
103				Anderson-Darling Test Statistic	0.499					95% Bootstrap-t UCL	3.964	
104				Anderson-Darling 5% Critical Value	0.715					95% Hall's Bootstrap UCL	3.864	
105				Kolmogorov-Smirnov Test Statistic	0.22					95% Percentile Bootstrap UCL	3.904	
106				Kolmogorov-Smirnov 5% Critical Value	0.294					95% BCA Bootstrap UCL	3.873	
107	**Data appear Gamma Distributed at 5% Significance Level**									95% Chebyshev(Mean, Sd) UCL	4.957	
108										97.5% Chebyshev(Mean, Sd) UCL	5.647	
109	**Assuming Gamma Distribution**									99% Chebyshev(Mean, Sd) UCL	7.002	
110				95% Approximate Gamma UCL	4.337							
111				95% Adjusted Gamma UCL	4.635							
112												
	Potential UCL to Use									Use 95% Student's-t UCL	4.056	
115												
116	**Walleye**											
117												
118	**General Statistics**											
119				Number of Valid Observations	3					Number of Distinct Observations	3	
120												
121												
122	**Warning: This data set only has 3 observations!**											
123	**Data set is too small to compute reliable and meaningful statistics and estimates!**											
124	**The data set for variable Walleye was not processed!**											
125												
126	**It is suggested to collect at least 8 to 10 observations before using these statistical methods!**											
127	**If possible, compute and collect Data Quality Objectives (DQO) based sample size and analytical results.**											

Appendix 5

Fish Tissue Statistical Analysis

t-test, ANOVA, Mann Whitney Analysis
Box and Whisker Plots

t-test, ANOVA, Mann Whitney Analysis

Table A5-1
River Reach Sites Analysis of Means

Statistic	Carp		Sucker		Small Mouth Bass		Rock Bass		Dace	
	UR1	UR2	UR1	UR2	UR1	UR2	UR1	UR2	UR1	UR2
Upper River										
Mean	25.9	14.7	12.4	8.92	13	14.5	6.94	4.27	7.67	No Fish
Standard Deviation	21.4	15	5	4.19	7.28	11.1	5.01	2.94	6.85	
Count	16	16	8	8	8	8	8	8	6	
t	1.71		1.51		0.32		1.30		Not Applicable	
Critcal Value at $t_{0.1/2}$	1.75		1.86		1.86		1.86			
Significant Difference	No		No		No		No			
Statistic	**MR1**	**MR2**	**MR1**	**MR2**	**MR1**	**MR2**	**MR1**	**MR2**	**MR1**	**MR2**
Middle River										
Mean	4.44	Too Few Fish	8.77	3.96	8.75	4.3	Too Few Fish	2.49	9.47	8.51
Standard Deviation	7.43		5.86	2.01	4.94	1.61		0.78	4.15	2.25
Count	8		7	8	8	8		8	6	8
t	Not Applicable		2.07		2.42		Not Applicable		0.51	
Critcal Value at $t_{0.1/2}$			1.86		1.86				1.86	
Significant Difference			Yes		Yes				No	

Mean and Standard Deviation in mg/Kg

Values in Red exceed the Critical Value and the means for the data sets are significantly different.

Table A5-2
River Reach Sites Analysis of Variance

Statistic	White Sucker UR 1/UR 2			White Sucker MR 1/MR 2			Carp UR 1/UR 2			Carp MR 1/MR 2		
	SS	DF	Mean Square	SS	DF	Mean Square	SS	DF	Mean Square	SS	DF	Mean Square
SSc	49.2	1	49.16	86.2	1	86.15	996.7	1	996.68	8.9	1	8.93
SSw	297.8	14	21.27	234.4	13	18.03	6247.9	30	208.26	386.5	7	55.22
SSt	346.9	15		320.6	14		7244.6	31		395.4	8	
F statistic	2.3			4.8			4.8			0.2		
$F_{0.05,1,SSwDF}$	4.6			4.67			4.17			5.59		
Significant Difference	No			Yes			Yes			No		

Values in Red exceed the F Value and the data sets are significantly different.

Table A5-2
River Reach Sites Analysis of Variance

Statistic	SM Bass UR 1/UR 2			SM Bass MR 1/MR 2			Rock Bass UR 1/UR 2			Longnose Dace MR 1/MR 2		
	SS	DF	Mean Square	SS	DF	Mean Square	SS	DF	Mean Square	SS	DF	Mean Square
SSc	9.8	1	9.80	79.3	1	79.28	28.7	1	28.68	3.2	1	3.16
SSw	1235.5	14	88.25	189.1	14	13.51	236.1	14	16.86	121.3	12	10.11
SSt	1245.3	15		268.4	15		264.8	15		124.5	13	
F statistic	0.1			5.9			1.7			0.3		
$F_{0.05,1,SSwDF}$	4.6			4.6			4.6			4.67		
Significant Difference	No			Yes			No			No		

Values in Red exceed the F Value and the data sets are significantly different.

Table A5-3
River Reach Analysis of Population

River Reach Sites Mann Whitney Test

UR1	UR2
37.0	34.5
73.1	5.14
1.63	3.18
7.44	7.84
4.77	3.73
14.0	30.2
17.6	9.23
2.08	22.7
53.9	3.55
28.4	1.71
9.48	47.7
29.4	10.5
33.3	1.02
9.55	15.8
55.5	1.39
36.9	37.3

Results in mg/Kg

n_1	n_2	U	P (two-tailed)	P (one-tailed)
16	16	170	0.117926*	0.058963*
normal approx z = 1.58293			0.1134364*	0.0567182*

*These values are approximate.

The two samples are not significantly different (P >= 0.05, two-tailed test).

Table A5-4
River Reach Analysis of Means

Statistic	Carp		Sucker		Small Mouth Bass		Rock Bass		Dace	
	UR	MR	UR	MR	UR	MR	UR	MR	UR	MR
Upper to Middle River										
Mean	20.3	4.1	10.7	6.2	13.7	6.5	5.6	2.5	7.7	8.9
Standard Deviation	19.1	7.0	4.8	4.8	9.1	4.2	4.2	0.7	6.9	3.1
Count	32	9	16	15	16	16	16	9	6	14
t	3.95		2.59		2.87		2.86		0.43	
Critcal Value at $t_{0.1/2}$	1.70		1.75		1.75		1.75		1.76	
Significant Difference	Yes		Yes		Yes		Yes		No	

Statistic	Carp		Sucker		Small Mouth Bass		Rock Bass		Catfish	
	MR	LR	MR	LR	MR	LR	MR	LR	MR	LR
Middle River to Lower River										
Mean	4.1	11.3	6.2	4.3	6.5	5.8	2.5	2.6	18.0	13.7
Standard Deviation	7.0	15.2	4.8	0.9	4.2	3.1	0.7	1.1	15.3	10.0
Count	9	8	15	2	16	8	9	9	8	4
t	1.23		1.36		0.50		0.17		0.58	
Critcal Value at $t_{0.1/2}$	1.83		1.75		1.75		1.83		1.86	
Significant Difference	No		No		No		No		No	

Statistic	Carp		Sucker		Small Mouth Bass		Rock Bass		Catfish	
	LR	IH	LR	IH	LR	IH	LR	IH	LR	IH
Lower River to Inner Harbor										
Mean	11.3	3.2	Too Few Fish		5.8	3.4	2.6	Too Few Fish	13.7	19.4
Standard Deviation	15.2	2.8			3.1	1.0	1.1		10.0	0
Count	8	8			8	8	9		4	1
t	1.49		Not Applicable		2.11		Not Applicable		1.13	
Critcal Value at $t_{0.1/2}$	1.86				1.86				2.13	
Significant Difference	No				Yes				No	

Mean and Standard Deviation in mg/Kg
Values in Red exceed the Critical Value and the means for the data sets are significantly different.

Table A5-5
River Reach Analysis of Variance

Statistic	White Sucker UR/MR			Carp UR/MR			Smallmouth Bass UR/MR		
	SS	DF	Mean Square	SS	DF	Mean Square	SS	DF	Mean Square
SSc	154.4	1	154.41	1846.0	1	1846.03	415.9	1	415.92
SSw	524.1	29	18.07	9859.0	39	252.80	1347.5	30	44.92
SSt	678.5	30		11705.1	40		1763.5	31	
F statistic	8.5			7.3			9.3		
$F_{0.05,1,SSwDF}$	4.18			4.1			4.17		
Significant Difference	Yes			Yes			Yes		

Values in Red exceed the F Value and the data sets are significantly

Table A5-5
River Reach Analysis of Variance

Statistic	Rock Bass UR/MR			Dace UR/MR			White Sucker MR/LR		
	SS	DF	Mean Square	SS	DF	Mean Square	SS	DF	Mean Square
SSc	54.8	1	54.81	6.6	1	6.56	6.4	1	6.36
SSw	264.4	23	11.50	124.4	18	6.91	321.4	15	21.43
SSt	319.2	24		117.8	19		327.8	16	
F statistic	4.8			0.9			0.3		
$F_{0.05,1,SSwDF}$	4.28			4.41			4.54		
Significant Difference	Yes			No			No		

Values in Red exceed the F Value and the data sets are significantly

Table A5-5
River Reach Analysis of Variance

Statistic	Carp MR/LR			Smallmouth Bass MR/LR			Rock Bass Bass MR/LR		
	SS	DF	Mean Square	SS	DF	Mean Square	SS	DF	Mean Square
SSc	219.5	1	219.53	3.1	1	3.07	0.0	1	0.03
SSw	2011.2	15	134.08	333.6	22	15.16	4.9	16	0.31
SSt	2230.7	16		336.6	23		5.0	17	
F statistic	1.6			0.2			0.1		
$F_{0.05,1,SSwDF}$	4.54			4.3			4.49		
Significant Difference	No			No			No		

Values in Red exceed the F Value and the data sets are significantly

Table A5-5
River Reach Analysis of Variance

Statistic	Catfish MR/LR			White Sucker LR/IH			Carp LR/IH		
	SS	DF	Mean Square	SS	DF	Mean Square	SS	DF	Mean Square
SSc	49.0	1	49.00	Species not collected in a reach; can not calculate.			263.9	1	263.94
SSw	1937.2	10	193.72				1671.1	14	119.36
SSt	1986.2	11					1935.0	15	
F statistic	0.3						2.2		
$F_{0.05,1,SSwDF}$	4.96						4.6		
Significant Difference	No						No		

Values in Red exceed the F Value and the data sets are significantly

Table A5-5
River Reach Analysis of Variance

Statistic	Smallmouth Bass LR/IH			Rock Bass LR/IH			Catfish LR/IH			Longnose Dace		
	SS	DF	Mean Square	SS	DF	Mean Square	SS	DF	Mean Square	SS	DF	Mean Square
SSc	23.2	1	23.17	Species not collected in a reach; can not calculate.			25.6	1	25.63	Species not collected in a reach; can not calculate.		
SSw	72.6	14	5.19				301.0	3	100.32			
SSt	95.8	15					326.6	4				
F statistic	4.5						0.3					
$F_{0.05,1,SSwDF}$	4.6						10.1					
Significant Difference	No						No					

Values in Red exceed the F Value and the data sets are significantly

Table A5-6
River Reach Analysis of Population

River Reaches Mann Whitney Test

Smallmouth Bass

LR	IH
8.17	1.44
5.14	2.70
2.02	4.43
1.78	3.10
7.01	4.18
4.84	4.31
10.9	3.91
6.30	2.83

Results in mg/Kg

n_1	n_2	U	P (two-tailed)	P (one-tailed)
8	8	50	0.0649572	0.0324786
normal approx z = 1.89038			0.0587074*	0.0293537*

*These values are approximate.

The two samples are not significantly different (P >= 0.05, two-tailed test).

Catfish

LR	IH
8.49	19.4
11.7	
6.37	
28.4	

Results in mg/Kg

n_1	n_2	U	P (two-tailed)	P (one-tailed)
4	1	3	0.8	0.4
normal approx z = 0.707107			0.4795*	0.23975*

The two samples are not significantly different (P >= 0.05, two-tailed test).

Table A5-7
Fish Species Analysis of Means

Statistic	Carp		Sucker		Small Mouth Bass		Rock Bass		Dace		Catfish		Walleye	
	Carp	All*	Sucker	All*	SM Bass	All*	Rock Bass	All*	Dace	All*	Catfish	All*	Walleye	All*
Mean	13.43	7.94	8.25	9.58	8.28	9.69	3.99	10.40	8.54	9.46	15.85	8.98	8.65	9.41
Standard Deviation	17.07	6.87	5.17	11.40	7.08	11.52	3.29	11.28	4.39	11.13	12.96	10.43	5.76	10.89
Count	54	158	33	179	48	164	34	178	20	192	12	200	11	189
t	2.30		1.07		1.04		6.30		0.72		1.80		0.40	
Significant Difference	Yes		No		No		Yes		No		Yes		No	

Mean and Standard Deviation in mg/Kg

Critcal Value at $t_{0.1/2} = 1.64$

Values in Red exceed the Critical Value and the means for the data sets are significantly different.

* - Excluding the fish species being compared.

Table A5-8
Fish Species Analysis of Variance

Source	Adult Carp/All Fish			Adult Sucker/All Fish			SM Bass/All Fish		
	SS	DF	Mean Square	SS	DF	Mean Square	SS	DF	Mean Square
SSc	1488.5	1	1488.5	79.8	1	79.8	122.2	1	122.2
SSw	10056.8	214	47.0	452.7	214	2.1	1293.7	214	6.0
SSt	11156.9	215		144.2	215		1559.8	215	
F	31.7			37.7			20.2		
$F_{0.05,1,SSwDF}$	3.89			3.89			3.89		
Significant Difference	Yes			Yes			Yes		

Values in Red exceed the F Value and the data sets are significantly different.

Table A5-8
Fish Species Analysis of Variance

Source	Rock Bass/All Fish			Long Nose Dace/All Fish			Adult Catfish/All Fish			Adult Walleye/All Fish		
	SS	DF	Mean Square	SS	DF	Mean Square	SS	DF	Mean Square	SS	DF	Mean Square
SSc	1308.0	1	1308.0	28.7	1	28.7	702.8	1	702.8	12.4	1	12.4
SSw	557.8	214	2.6	1225.1	214	5.7	3517.1	214	16.4	1715.9	214	8.0
SSt	1477.4	215		865.4	215		3202.7	215		1728.3	215	
F	501.9			5.0			42.8			1.5		
$F_{0.05,1,SSwDF}$	3.89			3.89			3.89			3.89		
Significant Difference	Yes			Yes			Yes			No		

Values in Red exceed the F Value and the data sets are significantly different.

Table A5-9
Fish Species Analysis of Population

Fish Species Mann Whitney Test

Smallmouth Bass

18.6	21.5	15.2	22.2	7.3	6.1	8.6	4.1
28.9	5.3	14.9	33.5	3.1	6.4	13.5	10.5
14.1	6.0	5.8	4.2	7.5	9.3	18.2	5.0
3.5	7.7	5.5	2.6	3.7	3.1	4.3	4.1
8.2	5.1	2.0	1.8	7.0	4.8	10.9	6.3
1.4	2.7	4.4	3.1	4.2	4.3	3.9	2.8

All Other Species

37.0	73.1	1.6	7.4	4.8	14.0	17.6	2.1
53.9	28.4	9.5	29.4	33.3	9.6	55.5	36.9
34.5	5.1	3.2	7.8	3.7	30.2	9.2	22.7
3.6	1.7	47.7	10.5	1.0	15.8	1.4	37.3
2.1	1.7	1.3	2.5	22.8	1.6	1.3	2.2
1.3	2.5	15.7	0.5	44.9	18.4	4.5	2.0
1.9	3.2	2.5	5.0	9.1	2.3	2.1	0.9
0.2	15.9	16.6	10.3	20.6	10.6	5.7	7.3
12.3	10.8	12.0	5.0	9.4	4.0	16.6	6.0
7.5	3.7	11.8	3.2	19.9	8.8	4.7	9.2
3.2	2.4	3.5	3.5	0.9	6.4	7.0	4.8
5.0	3.7						
Smallmouth Bass							
		6.5	5.8	16.8	10.4	7.9	1.2
1.6	5.3	1.0	4.2	8.3	8.7	4.3	3.8
3.0	0.7	2.8	1.4	2.1	1.9	3.5	2.9
3.7	2.3	2.2	1.8	2.0	1.4	4.1	3.3
1.8	1.6	4.3	3.1	17.6	3.2	1.7	3.3
15.1	5.1	17.8	8.4	8.9	7.1	7.1	7.6
6.2	9.6	10.9	11.0	4.9	7.2	9.9	8.5
15.9	49.2	29.8	16.6	6.9	8.7	16.6	0.5
8.5	11.7	6.4	28.4	19.4	16.8	16.3	5.6
13.7	7.9	14.3	6.0	8.4	3.0	1.4	1.7

Results in mg/Kg

n_1	n_2	U	P (two-tailed)	P (one-tailed)
168	48	4140	0.778912*	0.389456*
normal approx z = 0.282819			0.777316*	0.388658*

*These values are approximate.

The two samples are not significantly different (P >= 0.05, two-tailed test).

Table A5-9
Fish Species Analysis of Population

Fish Species Mann Whitney Test

Dace

17.6	3.2	1.7	3.3	15.1	5.1	17.8	8.4
8.9	7.1	7.1	7.6	6.2	9.6	10.9	11.0
4.9	7.2	9.9	8.5				

All Other Species

37.0	73.1	1.6	7.4	4.8	14.0	17.6	2.1
53.9	28.4	9.5	29.4	33.3	9.6	55.5	36.9
34.5	5.1	3.2	7.8	3.7	30.2	9.2	22.7
3.6	1.7	47.7	10.5	1.0	15.8	1.4	37.3
2.1	1.7	1.3	2.5	22.8	1.6	1.3	2.2
1.3	2.5	15.7	0.5	44.9	18.4	4.5	2.0
1.9	3.2	2.5	5.0	9.1	2.3	2.1	0.9
0.2	15.9	16.6	10.3	20.6	10.6	5.7	7.3
12.3	10.8	12.0	5.0	9.4	4.0	16.6	6.0
7.5	3.7	11.8	3.2	19.9	8.8	4.7	9.2
3.2	2.4	3.5	3.5	0.9	6.4	7.0	4.8
5.0	3.7	18.6	21.5	15.2	22.2	7.3	6.1
8.6	4.1	28.9	5.3	14.9	33.5	3.1	6.4
13.5	10.5	14.1	6.0	5.8	4.2	7.5	9.3
18.2	5.0	3.5	7.7	5.5	2.6	3.7	3.1
4.3	4.1	8.2	5.1	2.0	1.8	7.0	4.8
10.9	6.3	1.4	2.7	4.4	3.1	4.2	4.3
3.9	2.8	6.5	5.8	16.8	10.4	7.9	1.2
1.6	5.3	1.0	4.2	8.3	8.7	4.3	3.8
3.0	0.7	2.8	1.4	2.1	1.9	3.5	2.9
3.7	2.3	2.2	1.8	2.0	1.4	4.1	3.3
1.8	1.6	4.3	3.1				
Dace							
15.9	49.2	29.8	16.6	6.9	8.7	16.6	0.5
8.5	11.7	6.4	28.4	19.4	16.8	16.3	5.6
13.7	7.9	14.3	6.0	8.4	3.0	1.4	1.7

Results in mg/Kg

n_1	n_2	U	P (two-tailed)	P (one-tailed)
196	20	2325	0.17171*	0.085855*
normal approx z = 1.37092			0.1704014*	0.0852007*

*These values are approximate.

The two samples are not significantly different (P >= 0.05, two-tailed test).

Table A5-9
Fish Species Analysis of Population

Fish Species Mann Whitney Test

Suckers

15.9	16.6	10.3	20.6	10.6	5.7	7.3	12.3
10.8	12.0	5.0	9.4	4.0	16.6	6.0	7.5
3.7	11.8	3.2	19.9	8.8	4.7	9.2	3.2
2.4	3.5	3.5	0.9	6.4	7.0	4.8	5.0
3.7							

All Other Species

37.0	73.1	1.6	7.4	4.8	14.0	17.6	2.1
53.9	28.4	9.5	29.4	33.3	9.6	55.5	36.9
34.5	5.1	3.2	7.8	3.7	30.2	9.2	22.7
3.6	1.7	47.7	10.5	1.0	15.8	1.4	37.3
2.1	1.7	1.3	2.5	22.8	1.6	1.3	2.2
1.3	2.5	15.7	0.5	44.9	18.4	4.5	2.0
1.9	3.2	2.5	5.0	9.1	2.3	2.1	0.9
0.2							
White Suckers							
		18.6	21.5	15.2	22.2	7.3	6.1
8.6	4.1	28.9	5.3	14.9	33.5	3.1	6.4
13.5	10.5	14.1	6.0	5.8	4.2	7.5	9.3
18.2	5.0	3.5	7.7	5.5	2.6	3.7	3.1
4.3	4.1	8.2	5.1	2.0	1.8	7.0	4.8
10.9	6.3	1.4	2.7	4.4	3.1	4.2	4.3
3.9	2.8	6.5	5.8	16.8	10.4	7.9	1.2
1.6	5.3	1.0	4.2	8.3	8.7	4.3	3.8
3.0	0.7	2.8	1.4	2.1	1.9	3.5	2.9
3.7	2.3	2.2	1.8	2.0	1.4	4.1	3.3
1.8	1.6	4.3	3.1	17.6	3.2	1.7	3.3
15.1	5.1	17.8	8.4	8.9	7.1	7.1	7.6
6.2	9.6	10.9	11.0	4.9	7.2	9.9	8.5
15.9	49.2	29.8	16.6	6.9	8.7	16.6	0.5
8.5	11.7	6.4	28.4	19.4	16.8	16.3	5.6
13.7	7.9	14.3	6.0	8.4	3.0	1.4	1.7

Results in mg/Kg

n_1	n_2	U	P (two-tailed)	P (one-tailed)
183	33	3358.5	0.306272*	0.153136*
normal approx z = 1.02584			0.304968*	0.152484*

*These values are approximate.

The two samples are not significantly different (P >= 0.05, two-tailed test).

Table A5-10
Baseline and Historical Data Analysis of Means

	Carp		Sucker		Small Mouth Bass		Rock Bass		Catfish	
	2000	**2008**	**2002**	**2008**	**2002**	**2008**	**2004**	**2008**	**2004**	**2008**
Upper River 1										
Mean	16.4	25.9	2.7	12.4	2.14	13	3.5	6.94	7.5	None
Standard Deviation	15.32	21.4	0.98	5	0.76	7.28	2.02	5.01	0.566	
Count	6	16	25	8	11	8	3	8	2	
t	1.15		5.45		4.20		1.62		Not Applicable	
Critcal Value at $t_{0.1/2}$	1.75		1.71		1.80		1.86			
Significant Difference	No		Yes		Yes		No			
	2004	**2008**	**2004**	**2008**	**2004**	**2008**	**2004**	**2008**	**2004**	**2008**
Upper River 2										
Mean	12.5	14.7	4.6	8.92	2.7	14.5	0.906	4.27	7.5	None
Standard Deviation	6.36	15	3	4.19	1.31	11.1	0.231	2.94	0.57	
Count	2	16	5	8	6	8	5	8	2	
t	0.38		2.16		2.98		3.22		Not Applicable	
Critcal Value at $t_{0.1/2}$	1.75		1.86		1.86		1.86			
Significant Difference	No		Yes		Yes		Yes			
	2004	**2008**	**2004**	**2008**	**2004**	**2008**	**2004**	**2008**	**2004**	**2008**
Lower River										
Mean	2.32	11.3	2.5	4.31	1.3	5.77	None	2.6	3.25	13.7
Standard Deviation	1.03	15.2	1.11	0.926	0.93	3.05		1.11	0.21	10
Count	5	9	5	2	5	8		8	2	4
t	5.09		0.82		1.16		Not Applicable		5.00	
Critcal Value at $t_{0.1/2}$	1.86		2.01		1.86				2.35	
Significant Difference	Yes		No		No				Yes	

Mean and Standard Deviation in mg/Kg

Values in Red exceed the Critical Value and the means for the data sets are significantly different.

Table A5-11
Baseline and Historical Data Analysis of Variance

Statistic	Upper River 1 Suckers			Upper River 2 Suckers			Lower River Suckers		
	SS	DF	Mean Square	SS	DF	Mean Square	SS	DF	Mean Square
SSc	573.4	1	573.36	57.9	1	57.87	4.5	1	4.45
SSw	197.9	31	6.38	159.1	11	14.47	5.8	5	1.16
SSt	771.3	32		217.0	12		10.2	6	
F Statistic	89.8			4.0			3.8		
$F_{0.05,1,SSwDF}$	4.16			4.84			6.61		
Significant Diffference	Yes			No			No		

Values in Red exceed the F Value and the data sets are significantly different.

Table A5-11
Baseline and Historical Data Analysis of Variance

Statistic	Upper River 1 Carp			Upper River 2 Carp			Lower River Carp		
	SS	DF	Mean Square	SS	DF	Mean Square	SS	DF	Mean Square
SSc	389.4	1	389.40	8.7	1	8.75	No individual historical results. Can not calculate.		
SSw	2235.1	20	111.76	610.8	16	38.17			
SSt	1845.7	21		602.0	17				
F Statistic	3.5			0.2					
$F_{0.05,1,SSwDF}$	4.35			4.49					
Significant Diffference	No			No					

Values in Red exceed the F Value and the data sets are significantly different.

Table A5-11
Baseline and Historical Data Analysis of Variance

Statistic	Upper River 1 Small Mouth Bass			Upper River 2 Small Mouth Bass			Lower River Small Mouth Bass		
	SS	DF	Mean Square	SS	DF	Mean Square	SS	DF	Mean Square
SSc	542.2	1	542.22	476.8	1	476.82	60.2	1	60.17
SSw	377.0	17	22.17	873.0	12	72.75	68.6	11	6.24
SSt	919.2	18		1349.8	13		128.8	12	
F Statistic	24.5			6.6			9.6		
$F_{0.05,1,SSwDF}$	4.45			4.75			4.84		
Significant Diffference	Yes			Yes			Yes		

Values in Red exceed the F Value and the data sets are significantly different.

Table A5-11
Baseline and Historical Data Analysis of Variance

Statistic	Upper River 1 Rock Bass			Upper River 2 Rock Bass			Lower River Catfish		
	SS	DF	Mean Square	SS	DF	Mean Square	SS	DF	Mean Square
SSc	25.9	1	25.88	No individual historical results. Can not calculate.			146.7	1	146.72
SSw	184.0	9	20.44				301.0	4	75.25
SSt	209.9	10					447.7	5	
F Statistic	1.3						1.9		
$F_{0.05,1,SSwDF}$	5.12						7.71		
Significant Diffference	No						No		

Values in Red exceed the F Value and the data sets are significantly different.

Table A5-12
Baseline and Historical Data Analysis of Population

Baseline & Historical Mann Whitney Test
Upper River 2 Suckers

Historical	Baseline
2.2	10.8
4.3	12.03
2.6	5.04
4.1	9.44
9.7	3.95
	16.6
	5.95
	7.52

Results in mg/Kg

n_1	n_2	U	P (two-tailed)	P (one-tailed)
n_1	n_2	U	P (two-tailed)	P (one-tailed)
8	5	38	0.006216	0.003108
normal approx z = 2.63493			0.00841546*	0.00420773*

The two samples are not significantly different (P >= 0.05, two-tailed test).

Lower River Smallmouth Bass

Historical	Baseline
1.7	8.17
2.8	5.14
0.86	2.02
0.93	1.78
0.45	7.01
	4.84
	10.9
	6.30

Results in mg/Kg

n_1	n_2	U	P (two-tailed)	P (one-tailed)
n_1	n_2	U	P (two-tailed)	P (one-tailed)
8	5	33	0.065268	0.032634
normal approx z = 1.90301			0.0570398*	0.0285199*

The two samples are significantly different (P < 0.01, two-tailed test).

Table A5-12
Baseline and Historical Data Analysis of Population

Lower River Catfish

Historical	Baseline
3.4	8.49
3.1	11.7
	6.37
	28.4

Results in mg/Kg

n_1	n_2	U	P (two-tailed)	P (one-tailed)
n_1	n_2	U	P (two-tailed)	P (one-tailed)
4	2	8	0.1333334	0.0666667
normal approx z = 1.85164			0.0640776*	0.0320388*

The two samples are significantly different (P < 0.01, two-tailed test).

Table A5-13
Baseline and Historical Data Analysis of Lipid Normalized Means

	Carp		Sucker		Small Mouth Bass		Rock Bass		Catfish	
	2000	**2008**	**2002**	**2008**	**2002**	**2008**	**2004**	**2008**	**2004**	**2008**
Upper River 1										
Mean	1213	937	210	1490	362	2186	703	1083	No Fish in 2008	
Standard Deviation	1579	1325	94	389	188	1866	396	614		
Count	6	16	25	8	11	8	3	8		
t	0.38		9.22		2.75		1.21		Not Applicable	
Critcal Value at $t_{0.1/2}$	1.75		1.71		1.80		1.86			
Significant Difference	No		Yes		Yes		No			
	2004	**2008**	**2004**	**2008**	**2004**	**2008**	**2004**	**2008**	**2004**	**2008**
Upper River 2										
Mean	543	513	289	955	297	1018	183	593	No Fish in 2008	
Standard Deviation	61	283	173	327	135	579	58	236		
Count	2	16	5	8	6	8	5	8		
t	0.36		4.79		3.40		4.69		Not Applicable	
Critcal Value at $t_{0.1/2}$	1.75		1.86		1.86		1.86			
Significant Difference	No		Yes		Yes		Yes			
	2004	**2008**	**2004**	**2008**	**2004**	**2008**	**2004**	**2008**	**2004**	**2008**
Lower River										
Mean	40	252	280	501	212	590	No Fish in 2004		58	242
Standard Deviation	45	198	9	24	167	339			6	100
Count	5	8	5	2	5	8			2	3
t	72.84		17.44		141.22		Not Applicable		57.89	
Critcal Value at $t_{0.1/2}$	1.86		2.01		1.86				2.35	
Significant Difference	Yes		Yes		Yes				Yes	

Mean and Standard Deviation in mg/Kg

Values in Red exceed the Critical Value and the means for the data sets are significantly different.

Table A5-14
Baseline and Historical Data Analysis of Lipid Normalized Variance

Statistic	Upper River 1 Suckers			Upper River 2 Suckers			Lower River Suckers		
	SS	DF	Mean Square	SS	DF	Mean Square	SS	DF	Mean Square
SSc	9777363.5	1	9777363	1364960.9	1	1364961	69848.3	1	69848.33
SSw	1269848.7	31	40963	867611.0	11	78874	925.0	5	185.00
SSt	11047212.2	32		2232571.9	12		70773.3	6	
F Statistic	238.7			17.3			377.6		
$F_{0.05,1,SSwDF}$	4.16			4.84			6.61		
Significant Diffference	Yes			Yes			Yes		

Values in Red exceed the F Value and the data sets are significantly different.

Table A5-14
Baseline and Historical Data Analysis of Lipid Normalized Variance

Statistic	Upper River 1 Carp			Upper River 2 Carp			Lower River Carp		
	SS	DF	Mean Square	SS	DF	Mean Square	SS	DF	Mean Square
SSc	331468.6	1	331469	1662.9	1	1662.94	No individual historical results. Can not calculate.		
SSw	35474118.1	20	1773706	1518256.1	16	94891.01			
SSt	35805586.7	21		1516593.2	17				
F Statistic	0.2			0.02					
$F_{0.05,1,SSwDF}$	4.35			4.49					
Significant Diffference	No			No					

Values in Red exceed the F Value and the data sets are significantly different.

Table A5-14
Baseline and Historical Data Analysis of Lipid Normalized Variance

Statistic	Upper River 1 Small Mouth Bass			Upper River 2 Small Mouth Bass			Lower River Small Mouth Bass		
	SS	DF	Mean Square	SS	DF	Mean Square	SS	DF	Mean Square
SSc	15422004.4	1	15422004	1782151.3	1	1782151	60.2	1	60.17
SSw	24722887.9	17	1454288	2440220.2	12	203352	68.6	11	6.24
SSt	40144892.3	18		4222371.5	13		128.8	12	
F Statistic	10.6			8.8			9.6		
$F_{0.05,1,SSwDF}$	4.45			4.75			4.84		
Significant Diffference	Yes			Yes			Yes		

Values in Red exceed the F Value and the data sets are significantly different.

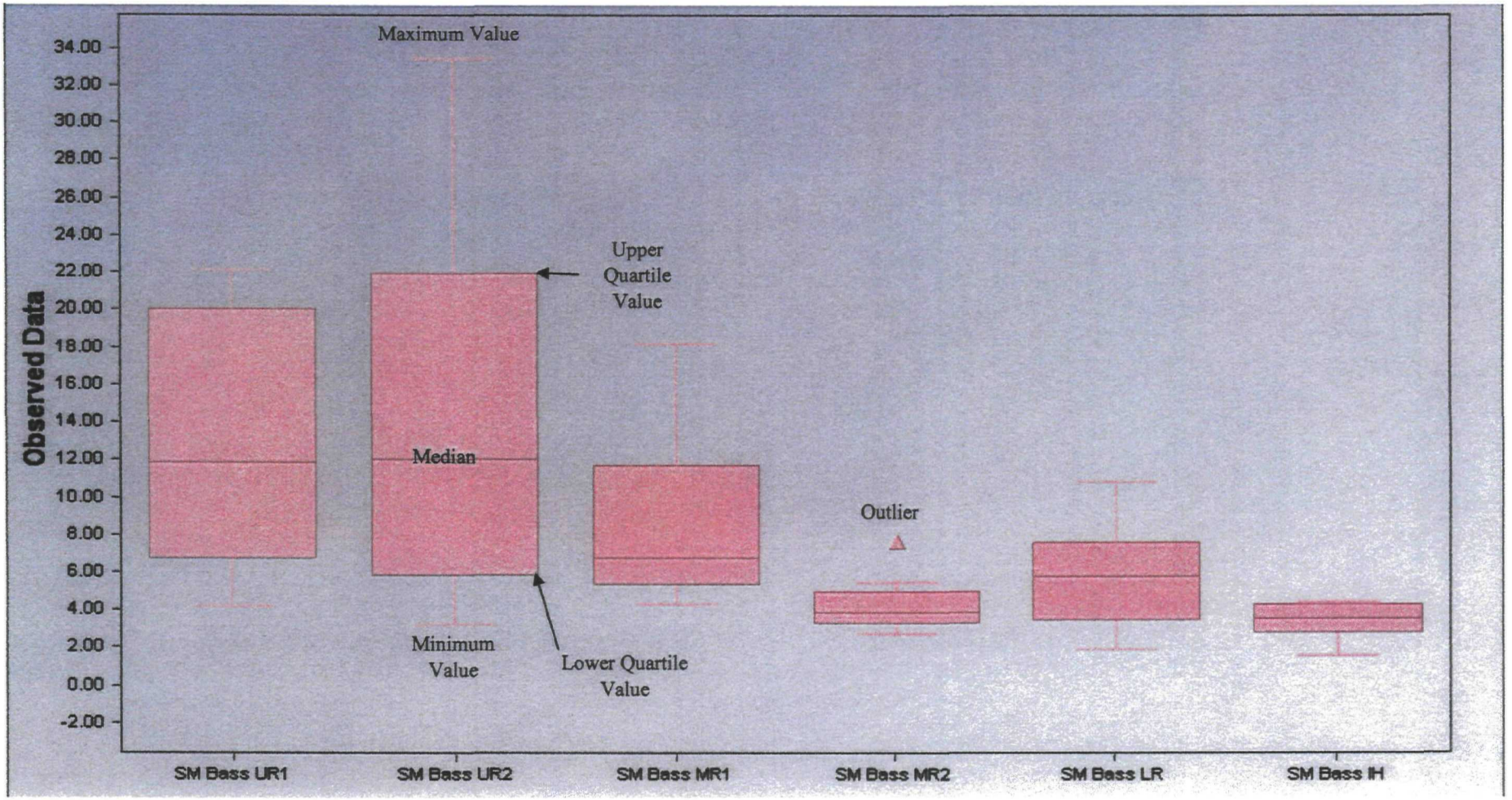
Table A5-14
Baseline and Historical Data Analysis of Lipid Normalized Variance

Statistic	Upper River 1 Rock Bass			Upper River 2 Rock Bass			Lower River Catfish		
	SS	DF	Mean Square	SS	DF	Mean Square	SS	DF	Mean Square
SSc	314511.6	1	314512	No individual historical results. Can not calculate.			195072.0	1	195072
SSw	2950858.5	9	327873				520628.3	9	57848
SSt	3265370.1	10					325556.2	10	
F Statistic	1.0						3.4		
$F_{0.05,1,SSwDF}$	5.12						10.1		
Significant Diffference	No						No		

Values in Red exceed the F Value and the data sets are significantly different.

Box and Whisker Plots

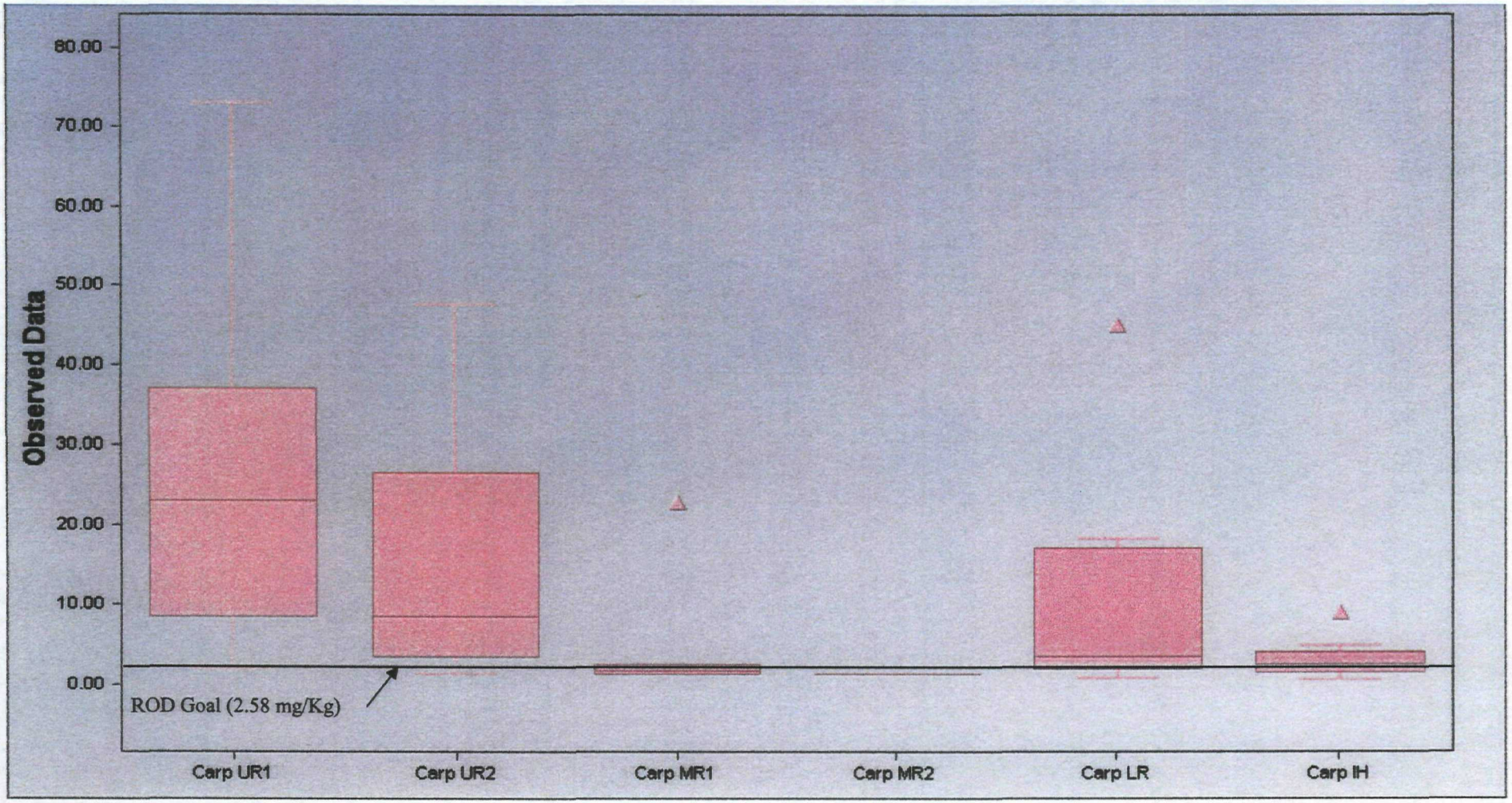
Example of Box and Whisker Plots



Observed Data is PCB concentration in fish tissue in (mg/Kg)

UR1 and UR2 - Upper River site 1 and Upper River site 2
MR1 and MR2 - Middle River site 1 and Middle River site 2
LR and IH - Lower River and Inner Harbor

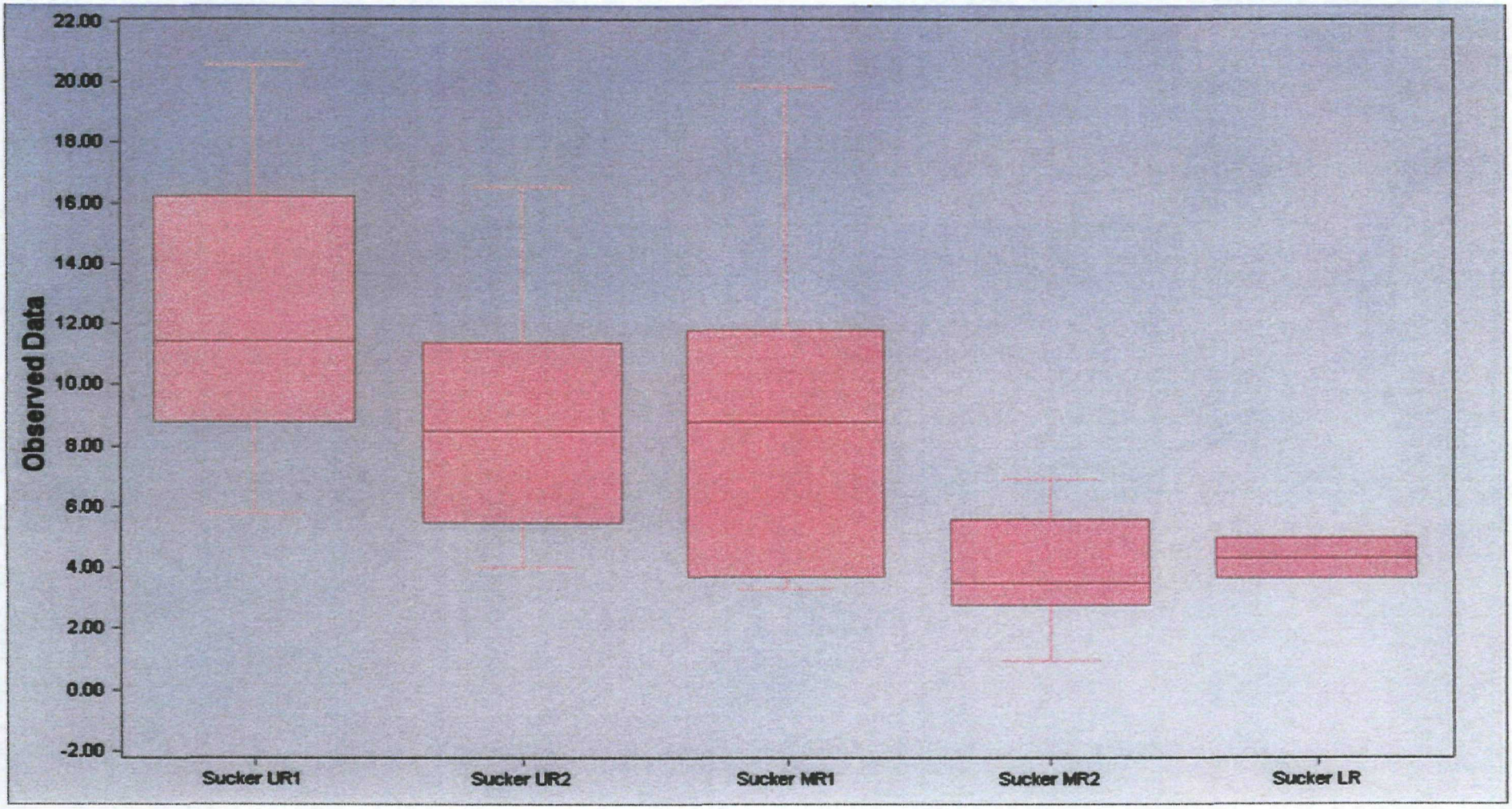
Adult Carp Box and Whisker Plots



Observed Data is PCB concentration in fish tissue in (mg/Kg).
There was only one carp collected in Middle River 2.
For Middle River 1, minimum and 1st quartile values too close to differentiate on plot. Maximum and 4th quartile values were equal.

UR1 and UR2 - Upper River site 1 and Upper River site 2
MR1 and MR2 - Middle River site 1 and Middle River site 2
LR and IH - Lower River and Inner Harbor

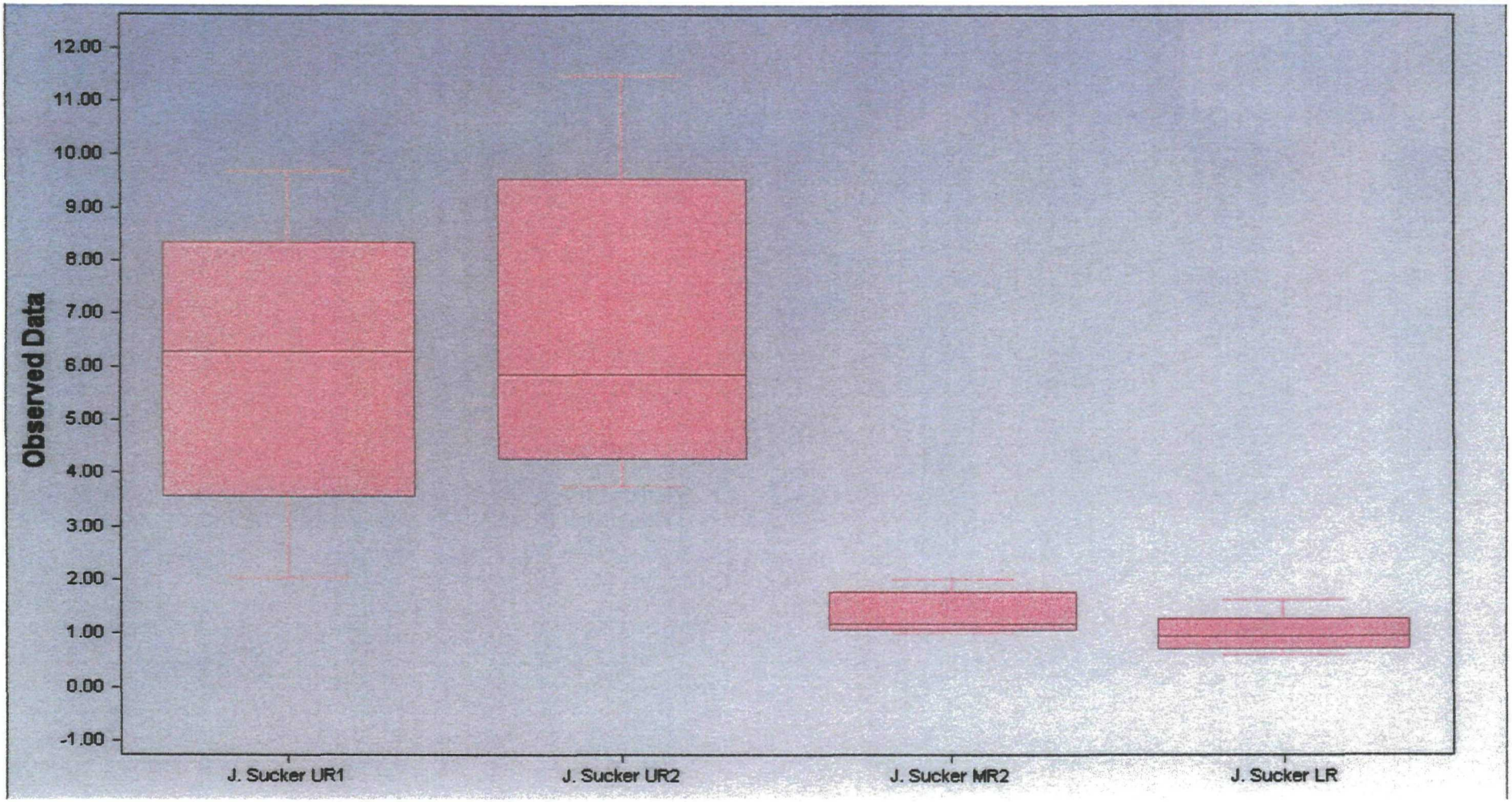
Adult Sucker Box and Whisket Plots



Observed Data is PCB concentration in fish tissue in (mg/Kg).
No adult suckers collected in Inner Harbor.
Only two adult suckers collected in Lower River.
No minimum and maximum shown on box plot.

UR1 and UR2 - Upper River site 1 and Upper River site 2
MR1 and MR2 - Middle River site 1 and Middle River site 2
LR - Lower River

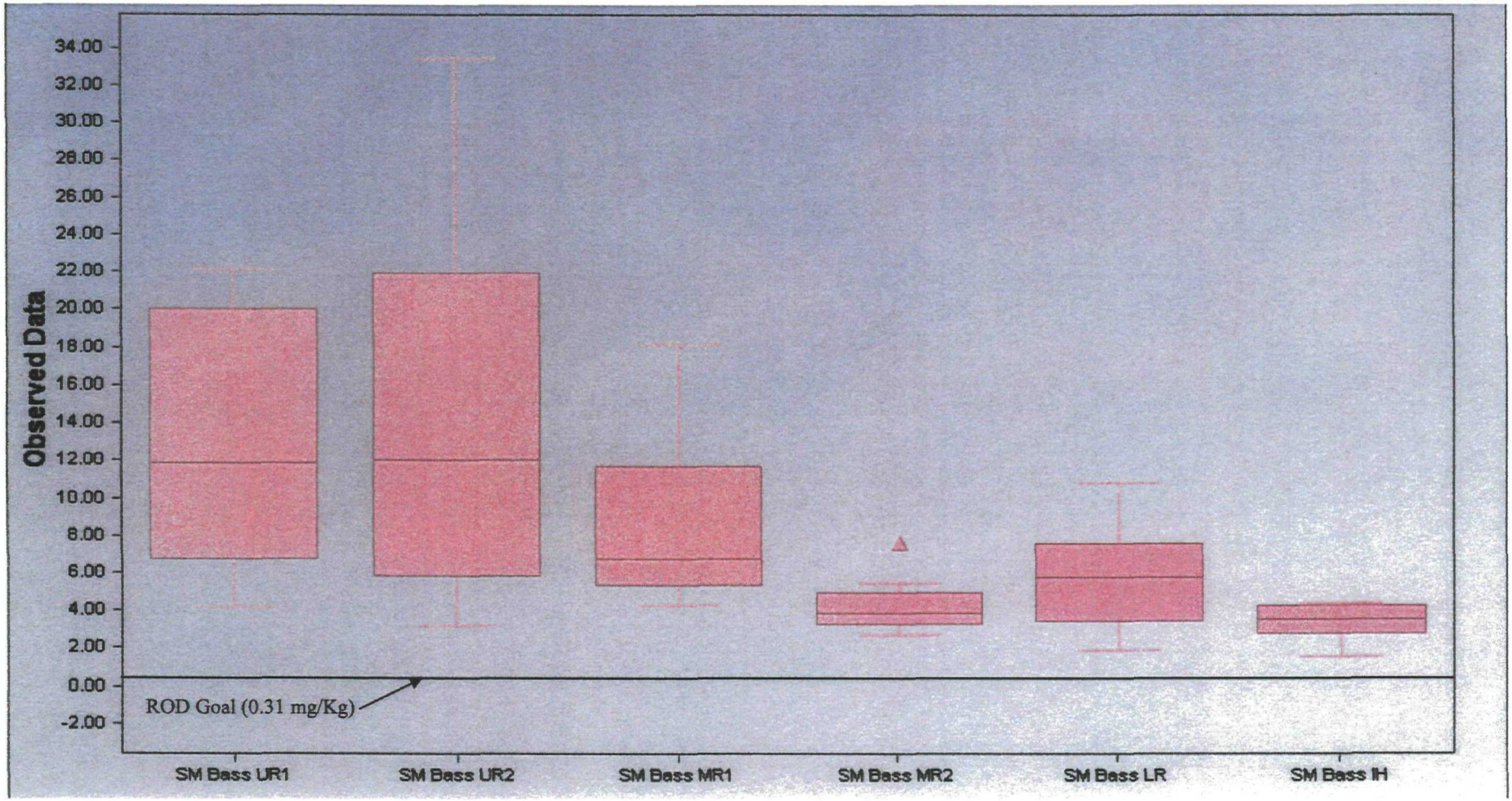
Juvenile Sucker Box and Whisker Plots



Observed Data is PCB concentration in fish tissue in (mg/Kg).
No juvenile suckers collected in Middle River 1 and Inner Harbor.

UR1 and UR2 - Upper River site 1 and Upper River site 2
MR2 - Middle River site 2
LR - Lower River

Smallmouth Bass Box and Whisker Plots

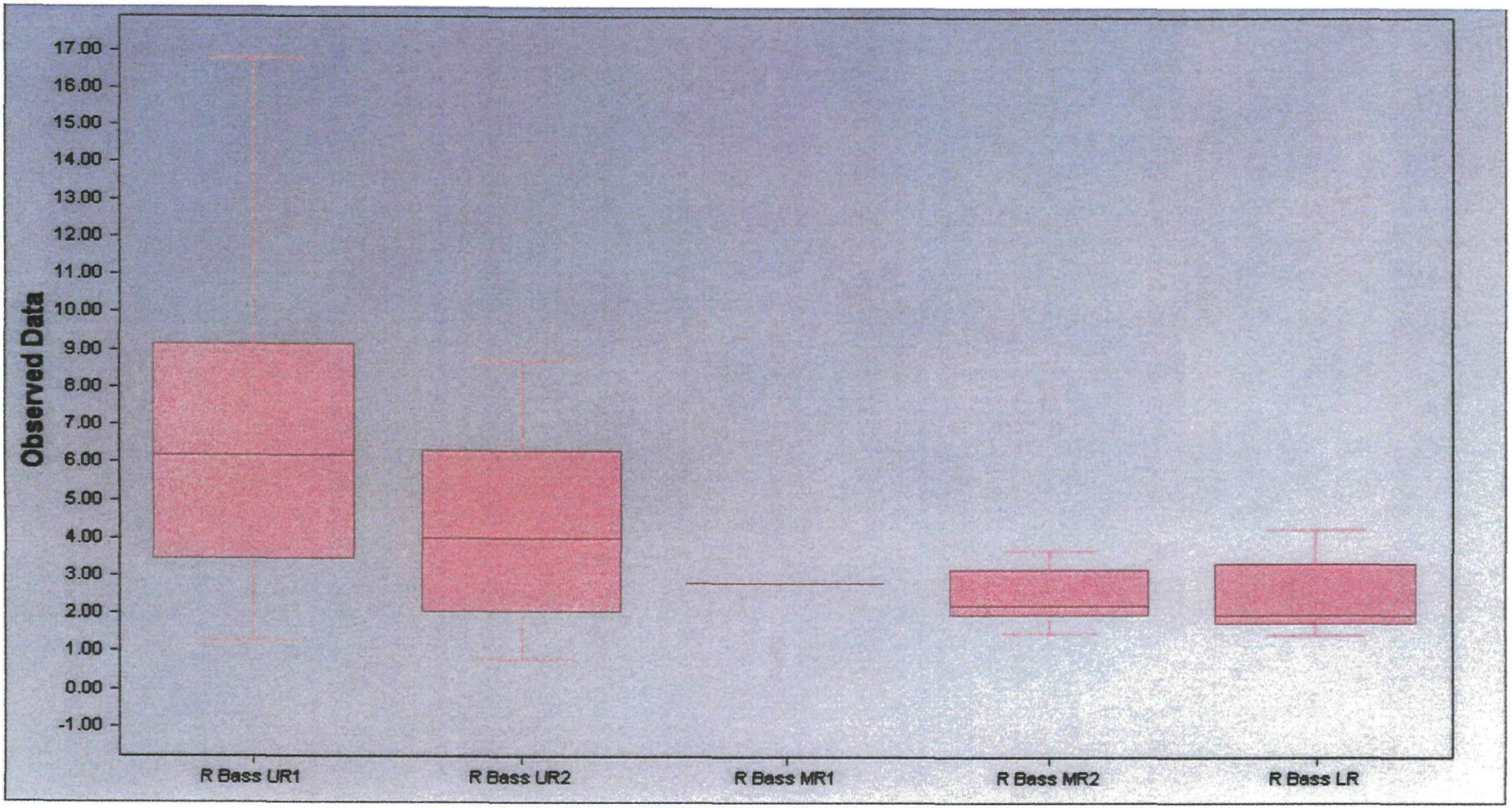


Observed Data is PCB concentration in fish tissue in (mg/Kg).

▲ Outlier identified during box and whisker plotting not identified during previous outlier analysis.

UR1 and UR2 - Upper River site 1 and Upper River site 2
MR1 and MR2 - Middle River site 1 and Middle River site 2
LR and IH - Lower River and Inner Harbor

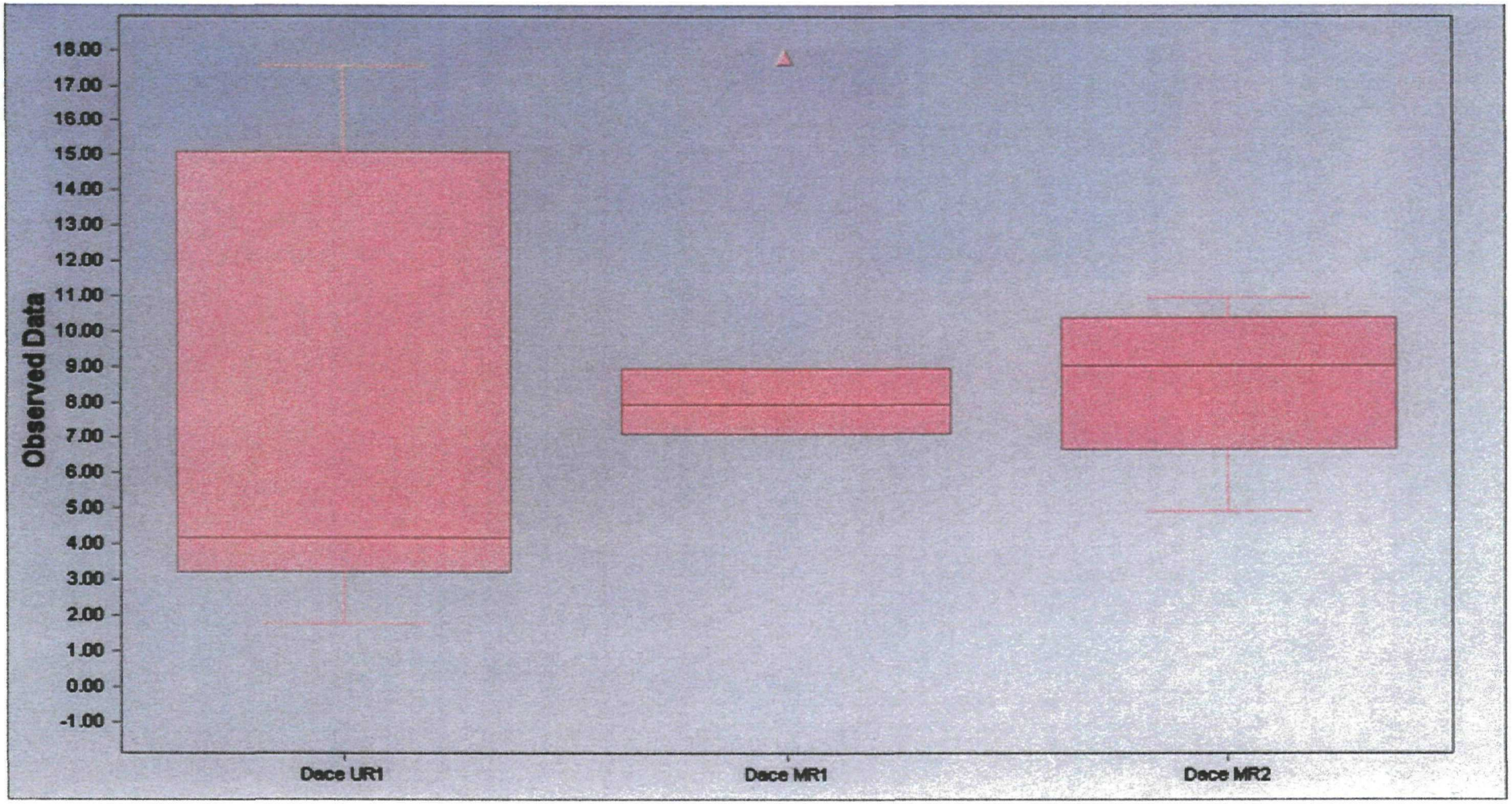
Rock Bass Box and Whisker Plots



Observed Data is PCB concentration in fish tissue in (mg/Kg).
No rock bass collected in Inner Harbor.
There was only one rock bass collected in Middle River 1.

UR1 and UR2 - Upper River site 1 and Upper River site 2
MR1 and MR2 - Middle River site 1 and Middle River site 2
LR - Lower River

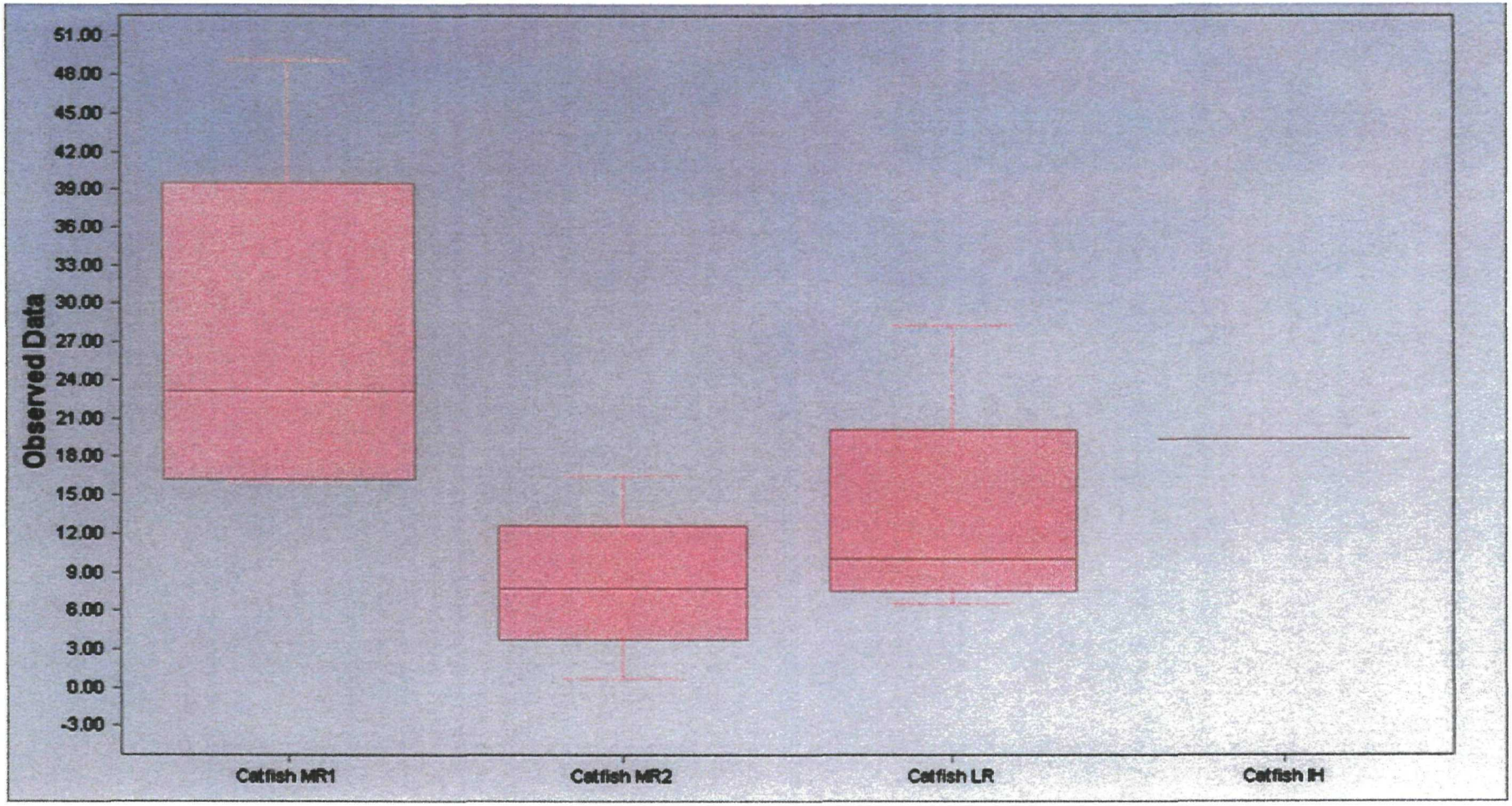
Longnose Dace Box and Whisker Plots



Observed Data is PCB concentration in fish tissue in (mg/Kg).
No dace collected in Upper River 2, Lower River, and Inner Harbor.
For Middle River 1, the minimum and 1st quartile values were the same.

UR1 - Upper River site 1
MR1 and MR2 - Middle River site 1 and Middle River site 2

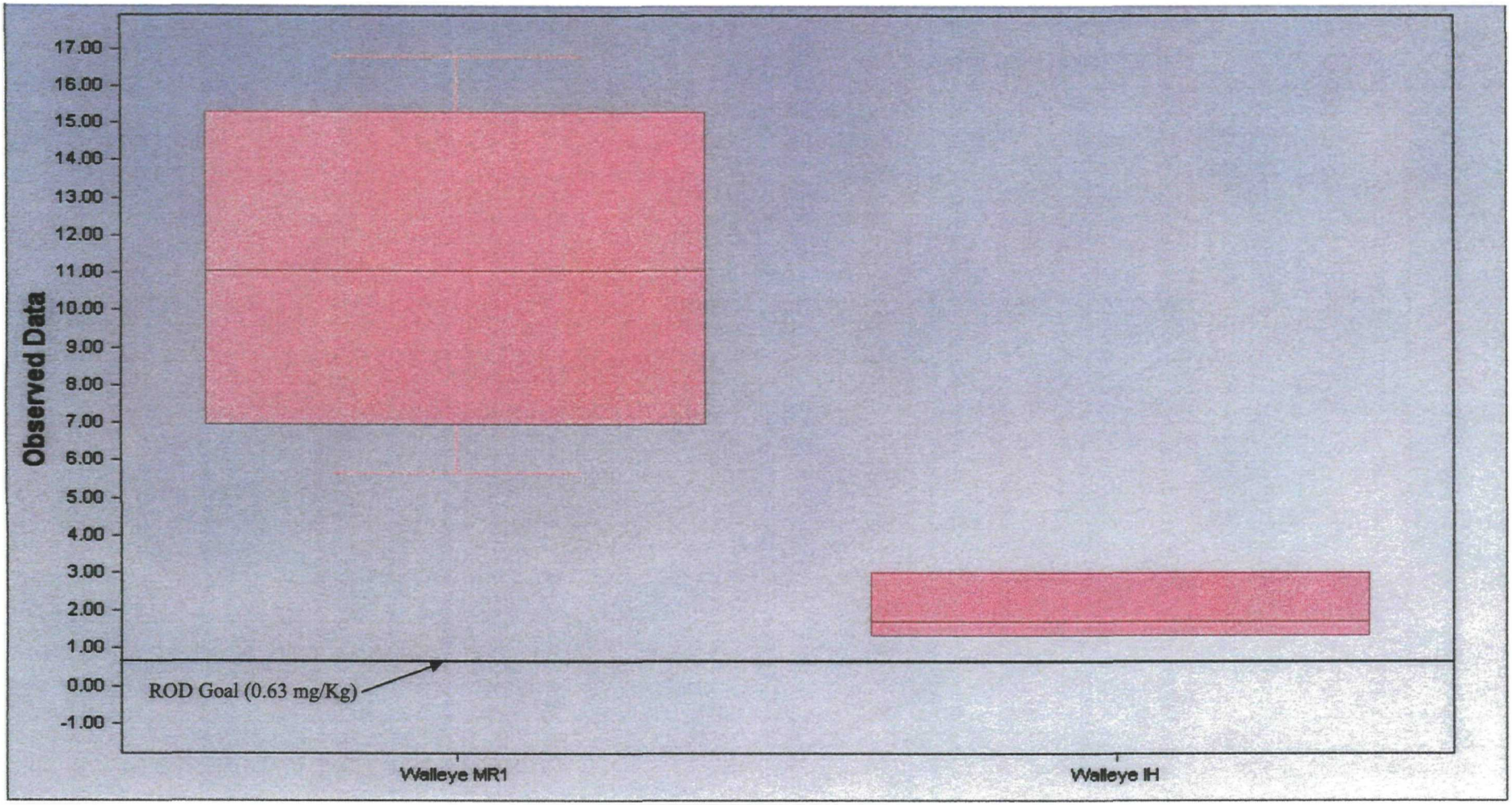
Catfish Box and Whisker Plots



Observed Data is PCB concentration in fish tissue in (mg/Kg).
No catfish collected in Upper River sites.
There was only one catfish collected in Inner Harbor.
Only three Lower River catfish plotted. Minimum and 1st quartile values too close to differentiate on plot. Maximum and 4th quartile values were equal.

MR1 and MR2 - Middle River site 1 and Middle River site 2
LR and IH - Lower River and Inner Harbor

Walleye Box and Whisker Plots



Observed Data is PCB concentration in fish tissue in (mg/Kg).
No adult walleyes collected in Inner Harbor.
Only three walleye collected in Inner Harbor. Minimum and 1st quartile values too close to differentiate on plot. Maximum and 4th quartile values were equal.

MR1 - Middle River site 1
IH - Inner Harbor

Appendix 6

Phase 1 Sampling Requirements

Fish Needs Statistical Analysis
Lower Fox River Method
(Upper River)

Upper River 1 Species/Location	α	β	MDRD	C/V	N	#
Smallmouth Bass	0.1	0.2	0.5	0.56	6	8
Adult Carp	0.1	0.2	0.5	0.83	12	12
Juvenile Carp	0.1	0.2	0.5	N/A	N/A	16
Adult Suckers	0.1	0.2	0.5	0.4	3	8
Juvenile Suckers	0.1	0.2	0.5	0.47	4	8
Rock Bass	0.1	0.2	0.5	0.72	9	8
Longnose Dace	0.1	0.2	0.5	0.89	14	8
Walleye	0.1	0.2	0.5	N/A	N/A	8
Catfish	0.1	0.2	0.5	N/A	N/A	8

Upper River 2 Species/Location	α	β	MDRD	C/V	N	#
Smallmouth Bass	0.1	0.2	0.5	0.77	11	8
Adult Carp	0.1	0.2	0.5	1.02	19	16
Juvenile Carp	0.1	0.2	0.5	N/A	N/A	16
Adult Suckers	0.1	0.2	0.5	0.47	4	8
Juvenile Suckers	0.1	0.2	0.5	0.43	3	8
Rock Bass	0.1	0.2	0.5	0.69	9	8
Longnose Dace	0.1	0.2	0.5	N/A	N/A	8
Walleye	0.1	0.2	0.5	N/A	N/A	8
Catfish	0.1	0.2	0.5	N/A	N/A	8

Fish Needs Statistical Analysis
Lower Fox River Method
(Middle River)

Middle River 1 Species/Location	α	β	MDRD	C/V	N	#
Smallmouth Bass	0.1	0.2	0.5	0.56	6	8
Adult Carp	0.1	0.2	0.5	1.67	50	8
Juvenile Carp	0.1	0.2	0.5	N/A	N/A	8
Adult Suckers	0.1	0.2	0.5	0.669	8	8
Juvenile Suckers	0.1	0.2	0.5	0.47	4	8
Rock Bass	0.1	0.2	0.5	N/A	N/A	8
Longnose Dace	0.1	0.2	0.5	0.438	3	8
Walleye	0.1	0.2	0.5	0.42	3	8
Catfish	0.1	0.2	0.5	0.56	6	8

Middle River 2 Species/Location	α	β	MDRD	C/V	N	#
Smallmouth Bass	0.1	0.2	0.5	0.37	2	8
Adult Carp	0.1	0.2	0.5	N/A	N/A	8
Juvenile Carp	0.1	0.2	0.5	N/A	N/A	8
Adult Suckers	0.1	0.2	0.5	0.51	5	8
Juvenile Suckers	0.1	0.2	0.5	0.28	1	8
Rock Bass	0.1	0.2	0.5	0.32	2	8
Longnose Dace	0.1	0.2	0.5	0.26	N/A	8
Walleye	0.1	0.2	0.5	N/A	N/A	8
Catfish	0.1	0.2	0.5	0.81	N/A	8

Fish Needs Statistical Analysis
Lower Fox River Method
(Lower River Inner Harbor)

Lower River Species/Location	α	β	MDRD	C/V	N	#
Smallmouth Bass	0.1	0.2	0.5	0.53	5	8
Adult Carp	0.1	0.2	0.5	1.35	33	8
Juvenile Carp	0.1	0.2	0.5	N/A	N/A	8
Adult Suckers	0.1	0.2	0.5	0.22	1	8
Juvenile Suckers	0.1	0.2	0.5	0.41	3	8
Rock Bass	0.1	0.2	0.5	0.43	3	8
Longnose Dace	0.1	0.2	0.5	N/A	N/A	8
Walleye	0.1	0.2	0.5	N/A	N/A	9
Catfish	0.1	0.2	0.5	0.73	10	8

Inner Harbor Species/Location	α	β	MDRD	C/V	N	#
Smallmouth Bass	0.1	0.2	0.5	0.31	2	8
Adult Carp	0.1	0.2	0.5	0.89	14	8
Juvenile Carp	0.1	0.2	0.5	N/A	N/A	8
Adult Suckers	0.1	0.2	0.5	N/A	N/A	8
Juvenile Suckers	0.1	0.2	0.5	N/A	N/A	8
Rock Bass	0.1	0.2	0.5	N/A	N/A	9
Longnose Dace	0.1	0.2	0.5	N/A	N/A	8
Walleye	0.1	0.2	0.5	0.42	3	8
Catfish	0.1	0.2	0.5	0.3	2	8

Appendix 7

Appendix 7

Foth Multiple Regression Analysis

Foth Infrastructure & Environment, LLC
Memorandum

November 11, 2008

TO: Keith Egan, PRS; Ken Aukerman, PRS

CC: Steve Laszewski, Foth

FR: Steve Lehrke, Foth

RE: Analysis of Sheboygan River Fish Tissue Covariates

Background

Fish tissue PCB sample results collected during August and September of 2008 were received by Foth Infrastructure & Environment, LLC (Foth) from PRS for the purpose of conducting a multiple regression analysis. This data is included as Attachment 1. The analysis was performed to develop preliminary conclusions on the effectiveness of including covariates in future statistical tests for determining trends in fish tissue PCB levels. The covariates under consideration are fish length and percent lipids. Including these covariates in future statistical tests could potentially remove additional variation (or noise) from the data and allow a clearer determination to be made of fish tissue PCB concentration trends.

Covariate Approach (Future Analysis)

A statistical method of determining significant changes in fish tissue PCB concentrations between baseline and post-remediation results is to utilize multiple regression analysis. In a multiple regression model, the covariates of fish length and percent lipids could be included to more easily detect changes between the baseline and post-remediation concentration levels. Possible models include a linear model of the form:

$$PCB = B_0 + B_1 Length + B_2 Lipids + B_3 Remediation \qquad \text{(Equation 1)}$$

and an exponential model of the form:

$$PCB = e^{B0 + B1Length + B2Lipids + B3Remediation}. \qquad \text{(Equation 2)}$$

In both models *Remediation* is an indicator variable taking on a value of 0 for baseline data and 1 for post-remediation data. A test of the effect of remediation on average PCB concentrations could then be constructed as

$$H_0: B_3 \geq 0 \text{ v.s. } H_A: B_3 < 0.$$

If the test is significant, that is the coefficient B_3 is significantly less than 0, the conclusion is made that remediation on average has reduced PCB concentration levels.

Results of Current Data

The data included in Attachment 1 was utilized in various multiple regression analyses to verify if there was potential use in including fish length and percent lipids as covariates. Data sets were included for two sites in the Upper River, two sites in the Middle River, one site in the Lower River and one site in the Inner Harbor. Fish Types include adult carp, adult suckers, juvenile suckers, smallmouth bass, rock bass, longnose dace, walleye and catfish.

To do this, linear multiple regression models were developed in the form of:

$$PCB = B_0 + B_1 Length + B_2 Lipids \qquad \text{(Equation 3)}$$

and exponential models in the form of:

$$PCB = e^{B0 + B1Length + B2Lipids}. \qquad \text{(Equation 4)}$$

In order for the covariates to be useful in removing noise in the PCB data, they need to "explain" a significant amount of variation in the PCB concentrations. The results of the multiple regression models in equations 3 and 4 provide metrics which are useful in determining how much variation is being explained by the covariates. These metrics include:

- R^2:

  Provides a measure of how much variation in the PCB data is being explained by the entire model. Values fall between 0 and 1, with a value of 0 implying no variation is explained and a value of 1 implying all the variation is explained.

- Coefficients B_1 and B_2:

  In the linear model, estimates of these indicate the proportional change in PCB concentrations for a unit change in the corresponding covariate. In the exponential model the estimates indicate the proportional change in the logarithm of the PCB concentrations.

- Standard Errors of B_1 and B_2 estimates:

  The standard errors indicate how much variability can be expected in the estimates of B_1 and B_2.

- p-Level:

  The corresponding p-level indicates the probability of a coefficient (B_1 or B_2) being equal to zero. If a coefficient is significantly different from zero, the corresponding factor (*Length* or *Lipids*) has a significant impact on PCB concentrations. A p-level of less than 0.1 indicates the coefficient is significantly different from zero at a 10% error rate, and a p-level of less than 0.05 indicates significance at a 5% error rate.

The results of these metrics are given in Attachment 2 (Table 4). For each data set the model (linear or exponential) was chosen which gave the highest R^2 value. There are several data sets for which the coefficients corresponding to length and lipids are significantly different from zero, which indicates these factors significantly affect tissue PCB concentrations. The data sets illustrating significance with these factors are as follows:

Upper River 1:

- Adult Carp (length only)
- Adult Suckers (lipids only)
- Longnose Dace (length only)

Upper River 2:

- Adult Carp (length and lipids)
- Adult Suckers (length and lipids)
- Smallmouth Bass (lipids)
- Rock Bass (length and lipids)

Middle River 1:

- Adult Carp (length)
- Walleye (lipids)

Middle River 2:

- Rock Bass (lipids)
- Longnose Dace (length and lipids)

Lower River

- Adult Carp (lipids)
- Juvenile Suckers (length)
- Smallmouth Bass (lipids)
- Rock Bass (lipids)

Inner Harbor

- Adult Carp (lipids)
- Smallmouth Bass (lipids)

Since the coefficients for either length, lipids or both length and lipids were significantly different from zero in the above data sets, these are likely good factors to include in the covariate approach described above.

Note that in the above data sets several coefficients for length were negative (Attachment 2). This was the case for adult suckers and rock bass in the Upper River 2 data set, and smallmouth bass in the Inner Harbor data set. In these three cases length had an inverse effect on tissue PCB concentrations, meaning that the larger fish had lower concentrations.

Conclusions

In summary, fish tissue PCB sample results collected during August and September of 2008 (Attachment 1) were analyzed by multiple regression techniques to determine the usefulness of including covariate measures of fish length and percent lipids in future analysis. The future analysis would use these covariates to reduce additional variation in the data so that conclusions concerning PCB concentration trends can be more readily made. Based on the results, the inclusion of fish length and percent lipids significantly reduced variation noise in several of the data sets as listed above.

Attachment 1

Fish Tissue PCB Data Sets

Upper River Fish Tissue Results - Site 1

Adult Carp Length	Adult Carp % Lipid	Adult Carp PCB	Ln Adult Carp PCB	Adult White Sucker Length	Adult White Sucker % Lipid	Adult White Sucker PCB	Ln Adult White Sucker PCB	Juvenile White Sucker Length	Juvenile White Sucker % Lipid	Juvenile White Sucker PCB	Ln Juvenile White Sucker PCB
24.0	4.60%	37.0	3.6	16.0	1.40%	15.9	2.8	6.00	0.151%	9.71	2.3
21.0	1.33%	73.1	4.3	14.0	1.33%	16.6	2.8	6.00	0.367%	8.93	2.2
18.0	4.84%	1.63	0.5	13.0	0.555%	10.3	2.3	5.00	0.462%	6.08	1.8
19.0	4.45%	7.44	2.0	12.0	1.52%	20.6	3.0	6.00	0.248%	4.85	1.6
15.0	2.19%	4.77	1.6	14.0	0.855%	10.6	2.4	7.00	0.330%	7.76	2.0
16.0	0.625%	14.0	2.6	12.0	0.495%	5.74	1.7	6.00	0.638%	6.51	1.9
20.0	2.50%	17.6	2.9	14.0	0.330%	7.34	2.0	6.50	0.281%	2.28	0.8
19.5	0.340%	2.08	0.7	11.5	0.760%	12.3	2.5	6.00	0.275%	1.99	0.7
25.0	7.49%	53.9	4.0								
24.0	7.55%	28.4	3.3								
21.0	3.44%	9.48	2.2								
23.0	3.02%	29.4	3.4								
25.0	13.7%	33.3	3.5								
25.0	1.01%	9.55	2.3								
22.5	8.70%	55.5	4.0								
23.0	7.03%	36.9	3.6								

Upper River Fish Tissue Results - Site 1

Smallmouth Bass Length	Smallmouth Bass % Lipid	Smallmouth Bass PCB	Ln Smallmouth Bass PCB	Rock Bass Length	*Rock Bass % Lipid	Rock Bass PCB	Ln Rock Bass PCB	Longnose Dace Length	Longnose Dace % Lipid	Longnose Dace PCB	Longnose Dace PCB
13.0	0.625%	18.6	2.9	8.50	0.415%	6.53	1.9	3.00	2.77%	17.6	2.9
10.0	0.400%	21.5	3.1	8.00	0.590%	5.82	1.8	2.50	1.24%	3.20	1.2
15.0	1.43%	15.2	2.7	5.50	0.775%	16.8	2.8	2.00	1.14%	1.72	0.5
10.0	0.490%	22.2	3.1	6.00	1.02%	10.4	2.3	2.50	2.30%	3.29	1.2
10.0	0.695%	7.33	2.0	6.00	0.581%	7.91	2.1	3.50	4.00%	15.1	2.7
11.0	0.765%	6.14	1.8	7.00	0.325%	1.22	0.2	2.50	4.40%	5.11	1.6
14.0	1.17%	8.59	2.2	8.00	0.485%	1.57	0.5				
10.0	0.430%	4.09	1.4	5.50	0.619%	5.30	1.7				

Upper River Fish Tissue Results - Site 2

Adult Carp Length	Adult Carp % Lipid	Adult Carp PCB	Ln Adult Carp PCB	Adult White Sucker Length	Adult White Sucker % Lipid	Adult White Sucker PCB	Ln Adult White Sucker PCB	Juvenile White Sucker Length	Juvenile White Sucker % Lipid	Juvenile White Sucker PCB	Ln Juvenile White Sucker PCB
21.0	7.39%	34.5	3.5	11.0	0.960%	10.8	2.4	6.00	0.510%	4.39	1.5
23.0	2.05%	5.14	1.6	13.0	1.32%	12.0	2.5	7.00	0.450%	11.5	2.4
18.0	3.99%	3.18	1.2	14.0	1.14%	5.04	1.6	6.00	0.580%	5.71	1.7
15.0	4.64%	7.84	2.1	9.00	0.715%	9.44	2.2	5.00	0.440%	5.96	1.8
18.0	1.26%	3.73	1.3	10.0	0.355%	3.95	1.4	5.00	0.490%	9.32	2.2
23.5	3.25%	30.2	3.4	13.5	1.28%	16.6	2.8	7.00	0.410%	4.17	1.4
21.5	0.975%	9.23	2.2	14.0	1.12%	5.95	1.8	8.00	0.595%	3.73	1.3
22.5	3.16%	22.7	3.1	13.0	0.840%	7.52	2.0	7.00	0.510%	9.78	2.3
18.0	0.955%	3.55	1.3								
15.0	0.315%	1.71	0.5								
25.0	10.0%	47.7	3.9								
20.5	1.06%	10.5	2.4								
20.0	0.290%	1.02	0.0								
23.0	2.06%	15.8	2.8								
17.5	0.405%	1.39	0.3								
24.5	7.55%	37.3	3.6								

Upper River Fish Tissue Results - Site 2

Smallmouth Bass Length	Smallmouth Bass % Lipid	Smallmouth Bass PCB	Ln Smallmouth Bass PCB	Rock Bass Length	Rock Bass % Lipid	Rock Bass PCB	Ln Rock Bass PCB
11.0	1.78%	28.9	3.4	9.00	0.405%	1.04	0.0
13.0	0.775%	5.34	1.7	8.00	0.670%	4.24	1.4
11.0	1.16%	14.9	2.7	6.00	0.980%	8.25	2.1
12.0	1.67%	33.5	3.5	7.00	1.20%	8.72	2.2
13.0	1.26%	3.12	1.1	8.00	0.470%	4.32	1.5
10.0	0.970%	6.41	1.9	8.00	0.705%	3.78	1.3
10.0	1.69%	13.5	2.6	8.00	0.580%	3.04	1.1
10.0	1.29%	10.5	2.4	8.00	0.240%	0.739	-0.3

Middle River Fish Tissue Results - Site 1

Adult Carp Length	Adult Carp % Lipid	Adult Carp PCB	Ln Adult Carp PCB	Adult White Sucker Length	Adult White Sucker % Lipid	Adult White Sucker PCB	Ln Adult White Sucker PCB	Smallmouth Bass Length	Smallmouth Bass % Lipid	Smallmouth Bass PCB	Ln Smallmouth Bass PCB
16.0	1.22%	2.06	0.7	16.0	0.870%	3.72	1.3	13.0	1.37%	14.1	2.6
16.0	0.770%	1.71	0.5	15.0	1.30%	11.8	2.5	15.0	2.27%	6.04	1.8
17.0	0.390%	1.33	0.3	10.0	0.740%	3.24	1.2	14.0	1.09%	5.77	1.8
17.0	3.21%	2.51	0.9	16.0	0.795%	19.9	3.0	14.0	0.815%	4.20	1.4
15.5	0.845%	1.62	0.5	16.0	1.50%	8.79	2.2	14.5	0.765%	7.46	2.0
16.0	1.17%	1.28	0.2	14.0	0.705%	4.68	1.5	12.0	0.680%	9.29	2.2
17.5	1.14%	2.21	0.8	16.0	1.01%	9.23	2.2	15.0	1.30%	18.2	2.9
20.5	3.16%	22.8	3.1					11.0	0.830%	4.97	1.6

Middle River Fish Tissue Results - Site 1

Rock Bass Length	Rock Bass % Lipid	Rock Bass PCB	Ln Rock Bass PCB	Longnose Dace Length	Longnose Dace % Lipid	Longnose Dace PCB	Ln Longnose Dace PCB	Channel Catfish Length	Channel Catfish % Lipid	Channel Catfish PCB	Ln Channel Catfish PCB	Walleye Length	Walleye % Lipid	Walleye PCB	Walleye PCB
7.00	0.810%	2.79	1.0	4.00	5.82%	17.8	2.9	21.0	4.02%	15.9	2.8	21.0	2.33%	16.8	2.8
				3.50	2.08%	8.35	2.1	22.0	12.6%	49.2	3.9	19.5	2.11%	16.3	2.8
				2.00	3.64%	8.92	2.2	19.0	6.34%	29.8	3.4	12.5	0.595%	5.58	1.7
				2.50	4.84%	7.08	2.0	20.0	5.27%	16.6	2.8	16.0	1.52%	13.7	2.6
				2.00	2.70%	7.10	2.0					16.0	0.695%	7.93	2.1
				2.00	3.09%	7.56	2.0					17.5	1.61%	14.3	2.7
												13.0	0.465%	6.03	1.8
												15.5	1.00%	8.41	2.1

Middle River Fish Tissue Results - Site 2

Adult Carp Length	Adult Carp % Lipid	Adult Carp PCB	Adult White Sucker Length	Adult White Sucker % Lipid	Adult White Sucker PCB	Ln Adult White Sucker PCB	Juvenile White Sucker Length	Juvenile White Sucker % Lipid	Juvenile White Sucker PCB	Ln Juvenile White Sucker PCB
19.0	0.730%	1.27	14.5	0.200%	3.24	1.2	8.00	0.480%	2.03	0.7
			14.5	0.170%	2.37	0.9	8.00	0.400%	1.20	0.2
			14.0	0.520%	3.51	1.3	8.00	0.740%	1.76	0.6
			16.0	0.715%	3.48	1.2	8.00	0.575%	1.13	0.1
			14.0	0.150%	0.925	-0.1	8.00	0.270%	0.980	0.0
			16.0	1.23%	6.36	1.9	8.00	0.557%	1.08	0.1
			15.0	0.585%	6.98	1.9	6.00	0.455%	1.40	0.3
			13.5	1.36%	4.83	1.6				

Middle River Fish Tissue Results - Site 2

Smallmouth Bass Length	Smallmouth Bass % Lipid	Smallmouth Bass PCB	Ln Smallmouth Bass PCB	Rock Bass Length	Rock Bass % Lipid	Rock Bass PCB	Ln Rock Bass PCB	Longnose Dace Length	Longnose Dace % Lipid	Longnose Dace PCB	Ln Longnose Dace PCB	Channel Catfish Length	Channel Catfish % Lipid	Channel Catfish PCB	Channel Catfish
17.0	0.875%	3.53	1.3	7.00	0.480%	1.42	0.4	3.50	2.84%	6.20	1.8	19.0	4.21%	6.90	1.9
14.5	1.09%	7.65	2.0	7.00	0.593%	2.09	0.7	3.50	5.02%	9.60	2.3	22.0	6.01%	8.68	2.2
12.0	2.00%	5.54	1.7	7.00	1.24%	1.88	0.6	3.50	6.08%	10.9	2.4	22.0	3.45%	16.6	2.8
11.0	1.06%	2.64	1.0	6.50	1.80%	3.47	1.2	4.00	5.50%	11.0	2.4	17.0	3.49%	0.532	-0.6
11.5	1.12%	3.65	1.3	5.50	1.02%	2.86	1.1	2.00	2.33%	4.86	1.6				
11.0	1.09%	3.08	1.1	6.00	1.30%	3.70	1.3	2.50	5.09%	7.17	2.0				
10.0	1.30%	4.28	1.5	6.00	0.583%	2.27	0.8	3.50	4.13%	9.86	2.3				
12.0	1.26%	4.05	1.4	8.00	0.495%	2.20	0.8	3.00	5.74%	8.47	2.1				

Lower River Fish Tissue Results

Adult Carp Length	Adult Carp % Lipid	Adult Carp PCB	Ln Adult Carp PCB	Adult White Sucker Length	Adult White Sucker % Lipid	Adult White Sucker PCB	Juvenile White Sucker Length	Juvenile White Sucker % Lipid	Juvenile White Sucker PCB	Ln Juvenile White Sucker PCB
17.5	2.455%	2.52	0.9	12.5	1.025%	4.96	7.00	0.140%	1.27	0.2
24.5	2.69%	15.7	2.8	13.5	0.705%	3.65	8.00	0.205%	1.64	0.5
21.0	5.51%	0.458	-0.8				6.50	0.245%	0.713	-0.3
17.5	9.03%	44.9	3.8				5.00	0.094%	0.587	-0.5
24.0	6.40%	18.4	2.9				7.00	0.405%	0.967	0.0
24.0	3.63%	4.46	1.5							
18.0	0.825%	1.97	0.7							
19.5	1.07%	1.89	0.6							

Lower River Fish Tissue Results

Smallmouth Bass Length	Smallmouth Bass % Lipid	Smallmouth Bass PCB	Ln Smallmouth Bass PCB	Rock Bass Length	Rock Bass % Lipid	Rock Bass PCB	Ln Rock Bass PCB	Channel Catfish Length	Channel Catfish % Lipid	Channel Catfish PCB	Channel Catfish
10.0	1.19%	8.17	2.1	7.00	0.510%	1.76	0.6	19.0	4.11%	8.49	2.1
10.5	0.380%	5.14	1.6	6.50	0.410%	1.95	0.7	21.0	4.34%	11.7	2.5
13.0	0.650%	2.02	0.7	5.50	0.283%	1.40	0.3	20.0	4.98%	6.37	1.9
10.0	0.685%	1.78	0.6	5.00	0.982%	4.11	1.4	17.0	7.81%	28.4	3.3
12.0	1.50%	7.01	1.9	6.50	0.980%	3.33	1.2				
11.0	0.915%	4.84	1.6	6.50	0.445%	1.84	0.6				
12.0	2.13%	10.9	2.4	6.00	0.393%	1.63	0.5				
10.5	1.05%	6.30	1.8	7.00	0.915%	4.27	1.5				
				6.50	0.300%	3.07	1.1				

Inner Harbor Fish Tissue Results

Adult Carp Length	Adult Carp % Lipid	Adult Carp PCB	Ln Adult Carp PCB	Smallmouth Bass Length	Smallmouth Bass % Lipid	Smallmouth Bass PCB	Ln Smallmouth Bass PCB	Channel Catfish Length	Channel Catfish % Lipid	Channel Catfish PCB	Walleye Length	Walleye % Lipid	Walleye PCB	Walleye PCB
21.0	3.83%	9.14	2.2	15.0	0.680%	1.44	0.4	20.5	12.2%	19.4	21.0	3.71%	3.00	1.1
23.0	1.91%	3.21	1.2	14.0	0.855%	2.70	1.0				21.0	2.71%	1.36	0.3
16.5	2.52%	2.46	0.9	12.0	0.935%	4.43	1.5				22.0	1.72%	1.74	0.6
17.0	3.03%	5.02	1.6	13.0	1.00%	3.10	1.1							
18.5	4.04%	2.30	0.8	11.5	0.980%	4.18	1.4							
16.5	4.06%	2.05	0.7	11.0	1.13%	4.31	1.5							
18.5	1.29%	0.890	-0.1	14.0	1.58%	3.91	1.4							
19.0	0.630%	0.243	-1.4	17.0	1.77%	2.83	1.0							

Attachment 2

Regression Analysis Summary

Table 4
Two-Variable Regression Results

Reach	Statistic	Adult Carp		Adult Suckers		Juvenile Suckers		Smallmouth Bass		Rock Bass		Longnose Dace		Walleye		Catfish	
		Length	Lipids	Length	Lipids	Length	Lipids	Length	Lipids	Length	Lipids	Length	Lipids	Length	Lipids	Length	Lipids
Upper River 1	N	16		8		8		8		8		6		0		0	
	R^2	0.39		0.91		0.02		0.20		0.53		0.85		-		-	
	Coefficient	0.195	4.59	-0.485	1083.66	-0.036	57.48	3.137	-1911.86	-0.876	1344.79	1.503	8.67	-	-	-	-
	Standard Error	0.093	8.24	0.458	150.04	0.490	184.79	3.008	1690.26	1.548	870.67	0.507	19.21	-	-	-	-
	p (2-tail)	0.056	0.587	0.338	0.001	0.944	0.768	0.345	0.309	0.596	0.183	0.059	0.682	-	-	-	-
	Model	Exponential		Linear		Exponential		Linear		Linear		Exponential		-		-	
Upper River 2	N	16		8		8		8		8		0		0		0	
	R^2	0.88		0.69		0.09		0.59		0.95		-		-		-	
	Coefficient	1.925	341.85	-0.224	191.41	-0.072	-136.27	1.033	2442.65	-1.153	645.16	-	-	-	-	-	-
	Standard Error	0.517	55.57	0.096	57.33	0.180	291.98	2.564	910.63	0.514	146.26	-	-	-	-	-	-
	p (2-tail)	0.003	0.000	0.067	0.021	0.707	0.660	0.704	0.044	0.075	0.007	-	-	-	-	-	-
	Model	Linear		Exponential		Exponential		Linear		Linear		-		-		-	
Middle River 1	N	8		7		0		8		1		6		8		4	
	R^2	0.88		0.37		-		0.05		-		0.77		0.96		0.96	
	Coefficient	0.445	20.95	0.159	33.50	-	-	0.655	50.73	-	-	2.716	140.90	0.017	635.96	-1.850	436.13
	Standard Error	0.123	18.07	0.131	96.16	-	-	1.731	481.56	-	-	1.428	89.31	0.399	165.11	3.011	102.35
	p (2-tail)	0.015	0.299	0.294	0.745	-	-	0.721	0.920	-	-	0.153	0.213	0.967	0.012	0.649	0.147
	Model	Exponential		Exponential		-		Linear		-		Linear		Linear		Linear	
Middle River 2	N	1		8		7		8		8		8		0		4	
	R^2	-		0.53		0.25		0.37		0.62		0.91		-		0.97	
	Coefficient	-	-	0.615	265.92	-0.054	89.09	0.072	57.54	-0.299	102.52	0.238	12.56	-	-	3.040	-298.64
	Standard Error	-	-	0.680	134.30	0.155	79.19	0.056	37.53	0.297	48.80	0.068	3.23	-	-	0.491	100.24
	p (2-tail)	-	-	0.407	0.105	0.746	0.324	0.255	0.186	0.360	0.090	0.017	0.012	-	-	0.102	0.206
	Model	-		Linear		Exponential		Exponential		Linear		Exponential		-		Linear	
Lower River	N	8		2		5		8		9		0		0		4	
	R^2	0.64		-		0.93		0.76		0.67		-		-		0.86	
	Coefficient	-0.639	425.64	-	-	0.414	-145.70	-0.710	506.71	0.022	311.03	-	-	-	-	-0.508	499.45
	Standard Error	1.341	144.76	-	-	0.083	75.92	0.635	125.95	0.392	89.06	-	-	-	-	4.001	400.02
	p (2-tail)	0.654	0.032	-	-	0.038	0.195	0.315	0.010	0.957	0.013	-	-	-	-	0.920	0.430
	Model	Linear		-		Linear		Linear		Linear		-		-		Linear	
Inner Harbor	N	8		0		0		8		0		0		3		1	
	R^2	0.64		-		-		0.90		-		-		-		-	
	Coefficient	0.165	67.67	-	-	-	-	-0.533	196.02	-	-	-	-	-	-	-	-
	Standard Error	0.133	23.19	-	-	-	-	0.081	43.76	-	-	-	-	-	-	-	-
	p (2-tail)	0.269	0.033	-	-	-	-	0.001	0.007	-	-	-	-	-	-	-	-
	Model	Exponential		-		-		Linear		-		-		-		-	

p<0.05	Signicance level is below 0.05
0.05<p<0.1	Signicance level is greater than 0.05 and less than 0.1

Note: p-Level indicates the probability of the coeffiecient being equal to zero. Lower values of p indicate higher probabilities that the factors of length or percent lipids significantly affect fish tissue PCB concentrations.